1. General information 1.1 Member State 1.2 Species code 1.3 Species scientific name 1.4 Alternative species scientific name 1.5 Common name (in national language) barska kornjača

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2008-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	No

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

3.1 Is the species taken in the wild/exploited?	
3.2 Which of the measures in Art. 14 have been taken?	

No

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Baškiera, S., Koller, K., 2016. Istraživanje vodozemaca i gmazova na području šume Žutice, izvještaj za 2016. godinu (završni izvještaj). Hrvatsko herpetološko društvo – Hyla, Zagreb.

Dajčman, U., 2017. Poročilo o delu skupine za plazilce, in: Ekosistemi Balkana, Vransko jezero 2016. Društvo študentov biologije, Ljubljana, pp. 66–72. Fritz, U., 1992. Zur innerartliehen Variabilität von Emys orbicularis (Linnaeus, 1758) 2. Variabilität in Osteuropa und Redefinition von Emys orbicularis orbicularis (Linnaeus, 1758) und E. o. hellenica (Valenciennes, 1832) (Reptilia, Testudines: Emydidae). Zoologische Abhandlungen aus dem Staatlichen Museum fur Tierkunde in Dresden 47, 37–78.

Iglesias, R., Garca-Estévez, J.M., Ayres, C., Acuña, A., Cordero-Rivera, A., 2015. First reported outbreak of severe spirorchiidiasis in Emys orbicularis, probably resulting from a parasite spillover event. Dis Aquat Org 113, 75–80. https://doi.org/10.3354/dao02812

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22–41.

JU Brijuni, 2016. Nacionalni park Brijuni. PLAN UPRAVLJANJA (razdoblje provođenja plana od 2016. do 2025. godine).

Koller, K., 2017. Underground occurences of three species of amphibians and reptiles with special emphasis on Rana latastei (Amphibia: Anura). North-Western Journal of Zoology 13, 176–179.

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40.

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Koren, T., Štih, A., Burić, I., Koller, K., Lauš, B., Zadravec, M., 2018. The current distribution of pond slider Trachemys scripta (Reptilia: Emydidae) in Croatia. Natura Sloveniae 20, 33–44.

Kuljerić, M., 2010. Analitička studija herpetofaune s Dodatka II Direktive o zaštiti divlje faune i flore (završni izvještaj). Hrvatsko herpetološko društvo – Hyla, Zagreb.

Moravec, J., 2003. Some notes on the population of dwarfed Emys orbicularis from Pag (Croatia). Časopis Národního muzea, Řada přírodovědná 172, 55–60. M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb

5. Range

5.1 Surface area 19900

5.2 Short-term trend Period 2008-2018
5.3 Short-term trend Direction Uncertain (u)

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

5.8 Long-term trend Magnitude a) Minimum b) Maximum
5.9 Long-term trend Method used

5.10 Favourable reference range a) Area (km²)

b) Operator

c) Unknown x

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

It is possible the populations on Rab, Plavnik and Kornat islands became extinct in recent times, therefore the range could be smaller than reported here. However, untill this is confirmed (or disproven), they are included in this report

6. Population

6.1 Year or period 2008-2018

6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 168

6.3 Type of estimate Minimum

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- 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

Based mainly on expert opinion with very limited data

- 6.7 Short-term trend Period
- 2008-2018
- 6.8 Short-term trend Direction
- Unknown (x)
- 6.9 Short-term trend Magnitude
- a) Minimum
- b) Maximum
- c) Confidence interval
- 6.10 Short-term trend Method used
- Insufficient or no data available
- 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
- c) Unknown
- х
- d) Method
- 6.16 Change and reason for change in population size

The change is mainly due to:

6.17 Additional information

It is possible the populations on Rab, Plavnik and Kornat islands became extinct in recent times, therefore the population size could be smaller than reported here. However, untill this is confirmed (or disproven), they are included in this report

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
- 2008-2018

Unknown (x)

- 7.4 Short-term trend Direction
- Insufficient or no data available
- 7.5 Short-term trend Method used

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7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Invasive alien species of Union concern (I01)	М
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	М
Change of habitat location, size, and / or quality due to climate change (N05)	М
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Use of plant protection chemicals in agriculture (A21)	M
Threat	Ranking
Threat Invasive alien species of Union concern (I01)	Ranking H
Invasive alien species of Union concern (I01) Interspecific relations (competition, predation, parasitism,	Н
Invasive alien species of Union concern (I01) Interspecific relations (competition, predation, parasitism, pathogens) (L06) Change of habitat location, size, and / or quality due to	H H
Invasive alien species of Union concern (I01) Interspecific relations (competition, predation, parasitism, pathogens) (L06) Change of habitat location, size, and / or quality due to climate change (N05) Conversion into agricultural land (excluding drainage and	H H

8.2 Sources of information

8.3 Additional information

IAS union concern: Herpestes javanicus É. Geoffroy Saint-Hilaire, 1818; Pseudorasbora parva Temminck & Schlegel, 1846; Threskiornis aethiopicus Latham, 1790; Trachemys scripta Schoepff, 1792; Vespa velutina nigrithorax de Buysson, 1905;

IAS union concern: Herpestes javanicus É. Geoffroy Saint-Hilaire, 1818; Pseudorasbora parva Temminck & Schlegel, 1846; Threskiornis aethiopicus Latham, 1790; Trachemys scripta Schoepff, 1792; Vespa velutina nigrithorax de Buysson, 1905;

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures Measures identified, but none yet taken

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- 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

Reduce impact of multi-purpose hydrological changes (CJ02)

9.6 Additional information

Conservation measures are included in water management planning documents. However, as there is no systematic monitoring, there is no data to what extent are these measures really incorporated in water management activities and the system for evaluation of effectiveness of those measures is lacking.

10. Future prospects

10.1 Future prospects of parameters

- a) Range Unknown
- b) Population Unknown
- c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)
Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

- 12.1 Population size inside the pSCls, SCls 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 136

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12.2 Type of estimate

12.3 Population size inside the network Method used

12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

12.6 Additional information

Minimum

Based mainly on expert opinion with very limited data

Unknown (x)

Insufficient or no data available

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Continental (CON)

Baškiera, S., Koller, K., 2016. Istraživanje vodozemaca i gmazova na području šume Žutice, izvještaj za 2016. godinu (završni izvještaj). Hrvatsko herpetološko društvo – Hyla, Zagreb.

Dajčman, U., 2017. Poročilo o delu skupine za plazilce, in: Ekosistemi Balkana, Vransko jezero 2016. Društvo študentov biologije, Ljubljana, pp. 66–72. Fritz, U., 1992. Zur innerartliehen Variabilität von Emys orbicularis (Linnaeus, 1758) 2. Variabilität in Osteuropa und Redefinition von Emys orbicularis orbicularis (Linnaeus, 1758) und E. o. hellenica (Valenciennes, 1832) (Reptilia, Testudines: Emydidae). Zoologische Abhandlungen aus dem Staatlichen Museum fur Tierkunde in Dresden 47, 37–78.

Iglesias, R., Garca-Estévez, J.M., Ayres, C., Acuña, A., Cordero-Rivera, A., 2015. First reported outbreak of severe spirorchildiasis in Emys orbicularis, probably resulting from a parasite spillover event. Dis Aquat Org 113, 75–80. https://doi.org/10.3354/dao02812

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22–41.

JU Brijuni, 2016. Nacionalni park Brijuni. PLAN UPRAVLJANJA (razdoblje provođenja plana od 2016. do 2025. godine).

Koller, K., 2017. Underground occurences of three species of amphibians and

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reptiles with special emphasis on Rana latastei (Amphibia: Anura). North-Western Journal of Zoology 13, 176–179.

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Koren, T., Štih, A., Burić, I., Koller, K., Lauš, B., Zadravec, M., 2018. The current distribution of pond slider Trachemys scripta (Reptilia: Emydidae) in Croatia. Natura Sloveniae 20, 33–44.

Kuljerić, M., 2010. Analitička studija herpetofaune s Dodatka II Direktive o zaštiti divlje faune i flore (završni izvještaj). Hrvatsko herpetološko društvo – Hyla, Zagreb.

Moravec, J., 2003. Some notes on the population of dwarfed Emys orbicularis from Pag (Croatia). Časopis Národního muzea, Řada přírodovědná 172, 55–60. M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb

5. Range

5.1 Surface area 34100

5.2 Short-term trend Period 2008-2018

5.3 Short-term trend Direction Stable (0)

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

5.5 Short-term trend Method used Based mainly on expert opinion with very limited data

5.6 Long-term trend Period

5.7 Long-term trend Direction

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

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Area (km²)

b) Operator Approximately equal to (≈)

c) Unknown

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period 2008-2018

6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 362

6.3 Type of estimate Minimum

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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

Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2008-2018

6.8 Short-term trend Direction

Unknown (x)

6.9 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

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
- c) Unknown d) Method
- Х

6.16 Change and reason for change in population size

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)?

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

2008-2018

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

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7.9 Additional information

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Ranking
M
M
М
M
M
М
М
М
Ranking
Н
M
Н
Н
Н
M
M

8.2 Sources of information

8.3 Additional information

IAS union concern: Herpestes javanicus É. Geoffroy Saint-Hilaire, 1818; Pseudorasbora parva Temminck & Schlegel, 1846; Threskiornis aethiopicus Latham, 1790; Trachemys scripta Schoepff, 1792; Vespa velutina nigrithorax de Buysson, 1905;

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

9.2 Main purpose of the measures taken

9.3 Location of the measures taken

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9.4 Response to the measures

9.5 List of main conservation measures

Reduce impact of multi-purpose hydrological changes (CJ02)

9.6 Additional information

Conservation measures are included in water management planning documents. However, as there is no systematic monitoring, there is no dana to what extent are these measures really incorporated in water management activities and the system for evaluation of effectiveness of those measures is lacking.

10. Future prospects

10.1 Future prospects of parameters

- a) Range Good
- b) Population Unknown
- c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range

Favourable (FV)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Unknown (XX)

11.4. Future prospects

Unknown (XX)

11.5 Overall assessment of

Unknown (XX)

Conservation Status

11.6 Overall trend in Conservation

Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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 187

12.2 Type of estimate

Minimum

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12.3 Population size inside the network Method used

Based mainly on expert opinion with very limited 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

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State 1.2 Species code 2373 1.3 Species scientific name 1.4 Alternative species scientific name 1.5 Common name (in national language) riječna kornjača

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
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 propertyb) temporary or local prohibition of the takin specimens in the wild and exploitation

No ing of No c) regulation of the periods and/or methods of taking No specimens d) application of hunting and fishing rules which take No account of the conservation of such populations e) establishment of a system of licences for taking No specimens or of quotas f) regulation of the purchase, sale, offering for sale, No keeping for sale or transport for sale of specimens g) breeding in captivity of animal species as well as No artificial propagation of plant species h) other measures No

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

a) Uni

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Iglesias, R., Garca-Estévez, J.M., Ayres, C., Acuña, A., Cordero-Rivera, A., 2015. First reported outbreak of severe spirorchiidiasis in Emys orbicularis, probably resulting from a parasite spillover event. Dis Aquat Org 113, 75–80. https://doi.org/10.3354/dao02812

Koren, T., Štih, A., Burić, I., Koller, K., Lauš, B., Zadravec, M., 2018. The current distribution of pond slider Trachemys scripta (Reptilia: Emydidae) in Croatia. Natura Sloveniae 20, 33–44.

Štih, A., Koren, T., Zadravec, M., 2015. The Balkan Terrapin - secretive resident of southern Croatia. Croatian Herpetological Society - Hyla. Kopko d.o.o., Zagreb. Štih, A., Šalamon, D., 2018. Livin' on the edge – threats to the survival of the Balkan Terrapin in Croatia.

Štih, A. i Šalamon, D., 2018. Usluga izrade stručne podloge – riječna kornjača u sklopu projekta "Izrada prijedloga planova upravljanja strogo zaštićenim vrstama (s akcijskim planovima). Izvješće nakon prve godine terenskih istraživanja. Udruga Hyla. Zagreb, 31 str.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb, 285 str.

5. Range

5.1 Surface area 16

1600

5.2 Short-term trend Period

2007-2018

5.3 Short-term trend Direction

Uncertain (u)

5.4 Short-term trend Magnitude

a) Minimum

b) Maximum

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,	•
5.5 Short-term trend Method used	Based mainly on expert opinion with very limited data
5.6 Long-term trend Period	
5.7 Long-term trend Direction	
5.8 Long-term trend Magnitude	a) Minimum b) Maximum
5.9 Long-term trend Method used	
5.10 Favourable reference range	a) Area (km²)
	b) Operator Approximately equal to (≈)
	c) Unknown d) Method
5.11 Change and reason for change	.,
in surface area of range	
	The change is mainly due to:
5.12 Additional information	
3.12 Additional millionnation	
6. Population	
6.1 Year or period	2007-2018
o.1 rear or period	2007 2010
6.2 Population size (in reporting unit)	a) Unit number of map 1x1 km grid cells (grids1x1)
	b) Minimum
	c) Maximum
	d) Best single value 28
6.3 Type of estimate	Best estimate
6.4 Additional population size (using	a) Unit
population unit other than reporting	a) Unit b) Minimum
unit)	c) Maximum
	d) Best single value
6.5 Type of estimate	a, = 555 500 pt 4 4 4 5
6.6 Population size Method used	Based mainly on expert opinion with very limited data
6.7 Short-term trend Period	2007-2018
6.8 Short-term trend Direction	Uncertain (u)
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	1994-2018
6.12 Long-term trend Direction	Decreasing (-)
6.13 Long-term trend Magnitude	a) Minimum
	b) Maximum c) Confidence interval

6.14 Long-term trend Method used Based mainly on expert opinion with very limited data

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- 6.15 Favourable reference population (using the unit in 6.2 or 6.4)
- a) Population size
- b) Operator
- c) Unknown x
- d) Method

6.16 Change and reason for change in population size

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)?

No

b) Is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)?

Unknown

7.2 Sufficiency of area and quality of occupied habitat Method used

Based mainly on expert opinion with very limited data

7.3 Short-term trend Period

2007-2018

7.4 Short-term trend Direction

Decreasing (-)

7.5 Short-term trend Method used

Based mainly on expert opinion with very limited data

- 7.6 Long-term trend Period
- 7.7 Long-term trend Direction
- 7.8 Long-term trend Method used
- 7.9 Additional information

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Use of plant protection chemicals in agriculture (A21)	Н
Drainage for use as agricultural land (A31)	M
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	Н
Hydropower (dams, weirs, run-off-the-river), including infrastructure (DO2)	М
Bycatch and incidental killing (due to fishing and hunting activities) (G12)	Н
Invasive alien species of Union concern (I01)	Н
Plant and animal diseases, pathogens and pests (105)	Н
Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)	M
Physical alteration of water bodies (K05)	M

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Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (L05)	M
Threat	Ranking
Use of plant protection chemicals in agriculture (A21)	Н
Drainage for use as agricultural land (A31)	М
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	Н
Hydropower (dams, weirs, run-off-the-river), including infrastructure (D02)	M
Bycatch and incidental killing (due to fishing and hunting activities) (G12)	Н
Invasive alien species of Union concern (I01)	Н
Plant and animal diseases, pathogens and pests (105)	Н
Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01) $$	М
Physical alteration of water bodies (K05)	М
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (L05)	M

8.2 Sources of information

8.3 Additional information

IAS union concern: Trachemys scripta Schoepff, 1792;

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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

Early detection and rapid eradication of invasive alien species of Union concern (CI01)

Reduce impact of multi-purpose hydrological changes (CJ02)

9.6 Additional information

Conservation measures are included in water management planning documents. However, as there is no systematic monitoring, there is no dana to what extent are these measures really incorporated in water management activities and the system for evaluation of effectiveness of those measures is lacking.

10. Future prospects

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10.1 Future prospects of parameters

a) Range Poor b) Population Bad c) Habitat of the species Bad

10.2 Additional information

11. Conclusions

11.1. Range

11.2. Population

11.3. Habitat for the species

11.4. Future prospects

11.5 Overall assessment of Conservation Status

11.6 Overall trend in Conservation Status

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

Unfavourable - Inadequate (U1)

Unfavourable - Inadequate (U1)

Unfavourable - Bad (U2)

Unfavourable - Bad (U2)

Unfavourable - Bad (U2)

Unknown (x)

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

12.1 Population size inside the pSCls, SCls 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 28

12.2 Type of estimate

12.3 Population size inside the network Method used

Best estimate

Based mainly on expert opinion with very limited data

12.4 Short-term trend of population size within the network Direction

Uncertain (u)

12.5 Short-term trend of population size within the network Method used

Based mainly on expert opinion with very limited data

12.6 Additional information

13. Complementary information

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13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State HR 1.2 Species code 1217 1.3 Species scientific name Testudo hermanni 1.4 Alternative species scientific name

2. Maps

1.5 Common name (in national language)

3.1 Is the species taken in the

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	Yes

kopnena kornjača

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

wild/exploited?		
3.2 Which of the measures in Art.	a) regulations regarding access to property	No
14 have been taken?	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	No

artificial propagation of plant species

d) application of hunting and fishing rules which take account of the conservation of such populations
e) establishment of a system of licences for taking specimens or of quotas
f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens
g) breeding in captivity of animal species as well as

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Dajčman, U., 2017. Poročilo o delu skupine za plazilce, in: Ekosistemi Balkana, Vransko jezero 2016. Društvo študentov biologije, Ljubljana, pp. 66–72. Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Koren, T., Lauš, B., Burić, I., Kuljerić, M., 2011. Contribution to the herpetofauna (amphibians & reptiles) of the Kornati archipelago, Croatia. Natura Croatica 20, 387–396.

Lauš, B., 2010. A contribution to the herpetofauna of Žirje Island (Dalmatia, Croatia). Natura Sloveniae 12, 61–63.

Ljubisavljević, K., Džukić, G., Vukov, T.D., Kalezić, M., 2014. Distribution patterns of Hermann's Tortoise Testudo hermanni GMELIN, 1789, in the region of former Yugoslavia (Testudines: Testudinidae). Herpetozoa 26, 125–138.

Sopotnik, M., Vamberger, M., 2016. Poročilno skupin za dvoživke in plazilce, in: Ekosistemi Jadrana - Mljet 2008, Ekosistemi Jadrana. Društvo študentov biologije, Ljubljana, pp. 38–42.

Tóth, T., Géczy, C., Sós, E., Molnár, Z., Halpern, B., 2009. Further data on the herpetofauna of Lošinj Island, Croatia. Herpetozoa 21, 192.

Vamberger, M., 2012. Poročilo skupine za dvoživke in plazilce, in: Ekosistemi Jadrana, Pag 2007. Društvo študentov biologije, Ljubljana, pp. 10–17.

Vervust, B., Grbac, I., Brecko, J., Tvrtković, N., Van Damme, R., 2009. Distribution of reptiles and amphibians in the nature park Lastovo Archipelago: possible underlying biotic and abiotic causes. Natura Croatica: Periodicum Musei Historiae Naturalis Croatici 18, 113–127.

Vilaj, I., 2014. Doprinos poznavanju herpetofaune otoka Hvara, in: Barišić, M.,

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Burić, I., Gazić, M., Sučić, I. (Eds.), Istraživanje bioraznolikosti otoka Hvara 2011. Udruga studenata biologije - BIUS, Zagreb, pp. 136–156. M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb. 285 str.

5. Range

5.1 Surface area 23900

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
5.9 Long-term trend Method used

5.10 Favourable reference range a) Area (km²)

b) Operator Approximately equal to (≈)
c) Unknown

d) Method 5.11 Change and reason for change

in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

6.5 Type of estimate

6.1 Year or period 2007-2018

6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 280

6.3 Type of estimate Minimum

6.4 Additional population size (using population unit other than reporting unit)

a) Unit
b) Minimum
c) Maximum

d) Best single value

6.6 Population size Method used

Based mainly on expert opinion with very limited data

6.7 Short-term trend Period 2007-2018

6.8 Short-term trend Direction Unknown (x)

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- 6.9 Short-term trend Magnitude
- a) Minimum
- b) Maximum
- c) Confidence interval
- 6.10 Short-term trend Method used
- Insufficient or no data available
- 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
- a) Population size
- b) Operator
- c) Unknown
- d) Method
- 6.16 Change and reason for change in population size

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)?

X

- 7.2 Sufficiency of area and quality of occupied habitat Method used
- 7.3 Short-term trend Period
- 7.4 Short-term trend Direction
- 7.5 Short-term trend Method used
- 7.6 Long-term trend Period
- 7.7 Long-term trend Direction
- 7.8 Long-term trend Method used
- 7.9 Additional information

Based mainly on expert opinion with very limited data

2007-2018

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Illegal shooting/killing (G10)	Н
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M

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Conversion into agricultural land (excluding drainage and burning) (A01)	M
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M
Use of plant protection chemicals in agriculture (A21)	M
Threat	Ranking
Illegal shooting/killing (G10)	Н
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	М
Use of plant protection chemicals in agriculture (A21)	M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

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 Unknown b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range	Unknown (XX)
11.2. Population	Unknown (XX)
11.3. Habitat for the species	Unknown (XX)
11.4. Future prospects	Unknown (XX)

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11.5 Overall assessment of Conservation Status

11.6 Overall trend in Conservation Status

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

Unknown (XX)

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

12.1 Population size inside the pSCls, SCls 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 190

12.2 Type of estimate

12.3 Population size inside the network Method used

Minimum

Based mainly on expert opinion with very limited data

12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

Unknown (x)

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

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1. General information 1.1 Member State HR 1.2 Species code 1276 1.3 Species scientific name Ablepharus kitaibelii 1.4 Alternative species scientific name 1.5 Common name (in national language) ivanjski rovaš

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2008-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Complete survey or a statistically robust estimate
2.5 Additional maps	No

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

3.1 Is the species taken in the wild/exploited?
3.2 Which of the measures in A

14 have been taken?

No

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Continental (CON)

Bogdanović, T., 2008. Inventarizacija i valorizacija faune vodozemaca (Amphibia) i gmazova (Reptilia) Parka prirode "Papuk." Sveučilište J. J. Strossmayera, Odjel za biologiju, Osjek.

Janev Hutinec, B., Kletečki, E., Lazar, B., Podnar Lešić, M., Skejić, J., Tadić, Z., Tvrtković, N., 2006. Crvena knjiga vodozemaca i gmazova Hrvatske. Ministarstvo kulture, Državni zavod za zaštitu prirode, Zagreb.

Jelić, D., Basta, J., Marchand, M.A., Szövényi, G., 2009a. Prilog poznavanju rasprostranjenosti ivanjskog rovaša (Ablepharus kitaibelii Bibron & Bory, 1833) u Hrvatskoj.

Jelić, D., Jovanović Glavaš, O., Barišić, F., 2018. Monitoring ivanjskog rovaša, Ablepharus kitaibelii, na području Parka prirode Papuk. Izvještaj za 2018. godinu (final report). BIOTA j.d.o.o, Zagreb.

Jelić, D., Kuljerić, M., Koren, T., Treer, D., Šalamon, D., Lončar, M., Podnar Lešić, M., Janev Hutinec, B., Bogdanović, T., Mekinić, S., Jelić, K., 2012. Crvena knjiga vodozemaca i gmazova Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Republika Hrvatska.

Samarđić, I., 2010. Plan upravljanja Parka prirode Papuk 2011.-2020. Javna ustanova Park prirode Papuk, Velika.

Szövényi, G., Jelić, D., 2011. Distribution and conservation status of snake eyed skink (Ablepharus kitaibelii Bibron & Bory, 1833) in Croatia. North-Western Journal of Zoology 7, 20–2.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

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5. Range

5.1 Surface area	8	
5.2 Short-term trend Period	2008-2018	
5.3 Short-term trend Direction	Increasing (+)	
5.4 Short-term trend Magnitude	a) Minimum	b) Maximum
5.5 Short-term trend Method used	Complete survey or a	statistically robust estimate
E.C. Long town trond Davied		

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Minimum

a) Area (km²)

b) Operator

c) Unknown Х

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

Although the translocation of new (sub)populations on Papuk Mt. has been deemed successful (Jelić et al., 2018), it is still too early to say whether they are both viable in the long run - this needs to be monitored further. For now, both are included in this report and because of this the range is treated as "increasing".

b) Maximum

FRR cannot be calculated at this time due to too many factors being unknown.

6. Population

6.1 Year or period 2008-2018

6.2 Population size (in reporting unit)

a) Unit

number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

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

2008-2018

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6.8 Short-term trend Direction	Uncertain (u)	
6.9 Short-term trend Magnitude	a) Minimum	
	b) Maximum c) Confidence interval	
6.10 Short-term trend Method used	Insufficient or no data available	
6.11 Long-term trend Period	mountained of the data available	
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	a) Population size	
population (using the unit in 6.2 or	b) Operator	
6.4)	c) Unknown x	
	d) Method	
6.16 Change and reason for change in population size		
in population size	The change is mainly due to:	
		. ()
6.17 Additional information	The main Papuk population, i.e. not counting the rexperienced a significant decline between 2016 and	
	unknown whether this is a natural oscillation, or a	•
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)?	No
	b) Is there a sufficiently large area of unoccupied	Unknown
	habitat of suitable quality (for long-term	OHRHOWH
	survival)?	
7.2 Sufficiency of area and quality of occupied habitat Method used	Based mainly on expert opinion with very limited of	data
7.3 Short-term trend Period	2008-2018	
7.4 Short-term trend Direction	Uncertain (u)	
7.5 Short-term trend Method used	Based mainly on expert opinion with very limited of	data
7.6 Long-term trend Period		
7.7 Long-term trend Direction		
7.8 Long-term trend Method used		
7.9 Additional information	Although some apparently successful habitat main	
	had been performed at Papuk, these are by no me measure.	eans enough as a standalone

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8. Main pressures and threats

o.1 characterisation of pressures, aneats	
Pressure	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	Н
Other invasive alien species (other then species of Union concern) (IO2)	Н
Conversion from other land uses to housing, settlement or recreational areas (excluding drainage and modification of coastline, estuary and coastal conditions) (F01)	M
Extraction of minerals (e.g. rock, metal ores, gravel, sand, shell) (CO1)	M
Replanting with or introducing non-native or non-typical species (including new species and GMOs) (B03)	Н
Threat	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	Н
Other invasive alien species (other then species of Union concern) (IO2)	Н
Change of habitat location, size, and / or quality due to climate change (N05)	M
Fire (natural) (M09)	M
Conversion from other land uses to housing, settlement or recreational areas (excluding drainage and modification of coastline, estuary and coastal conditions) (F01)	M
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (L05)	M
Extraction of minerals (e.g. rock, metal ores, gravel, sand, shell) (CO1)	M
Replanting with or introducing non-native or non-typical	M
species (including new species and GMOs) (B03)	

8.2 Sources of information

Jelić et al. (2012), Szövény & Jelić (2011)

8.3 Additional information

Additional risks stem from the fact that this species is present in only a few fragmented and disconnected areas.

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

b) Indicate the status of measures

Measures identified and taken

Maintain the current range, population and/or habitat for the species

Advantage of the measures taken

Only inside Natura 2000

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9.4 Response to the measures

Medium-term results (within the next two reporting periods, 2019-2030)

9.5 List of main conservation measures

Prevent conversion of (semi-) natural habitats into forests and of (semi-)natural forests into intensive forest plantation (CB01)

Reinforce populations of species from the directives (CS01)

Improvement of habitat of species from the directives (CS03)

Management, control or eradication of other invasive alien species (Cl03)

Adapt/manage extraction of non-energy resources (CC01)

Adopt climate change mitigation measures (CN01)

9.6 Additional information

Although some of the measures have been identified, some are still unknown. Of those that were identified, some have even been implemented, but not at all locations where they were needed, and not necessarily in the needed amount.

10. Future prospects

10.1 Future prospects of parameters

a) Range Unknown

b) Population

Unknown

Bad

c) Habitat of the species

10.2 Additional information

This species occurs only on two sites and is therefore very succeptible to negative influences.

11. Conclusions

11.1. Range

Favourable (FV)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Unfavourable - Bad (U2)

11.4. Future prospects

Unfavourable - Bad (U2)

Unfavourable - Bad (U2)

11.5 Overall assessment of Conservation Status

Unknown (x)

11.6 Overall trend in Conservation Status

a) Overall assessment of conservation status

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

The change is mainly due to:

b) Overall trend in conservation status

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)
- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Uni
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

- 13.1 Justification of % thresholds for trends
- 13.2 Trans-boundary assessment
- 13.3 Other relevant Information

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1. General information	
1.1 Member State	HR
1.2 Species code	1243
1.3 Species scientific name	Algyroides nigropunctatus
1.4 Alternative species scientific name	
1.5 Common name (in national language)	mrki (ljuskavi) gušter

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2005-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited 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?
3.2 Which of the measures in Art 14 have been taken?

No

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Alpine (ALP)

De Luca, N., Kovačič, D., Đulić, B., 1990. Fauna vodozemaca, gmazova i sisavaca NP Krka, in: NP Kpka - Ekološka monografija 2. pp. 523–543.

Džukić, G., 1970. Beitrag zur Kenntnis der Verbreitung der Algyroides nigropunctatus Dumeril et Bibron in Jugoslawien. Fragmenta Balcanica Musei Macedonici scientiarum naturalium 7, 149–155.

Džukić, G., Pasuljević, G., 1979. O rasprostranjenju ljuskavog guštera – Algyroides nigropunctatus (Dumeril et Bibron, 1839) Reptilia, Lacertidae. Biosistematika 5, 61–70.

Lauš, B., Jelić, D., Burić, I., Kolarić, A., Koren, T., 2013. Distribution and Conservation of Batrachofauna and Herpetofauna of the Zrmanja River catchment area. Hyla: Herpetological bulletin 2012, 3–17.

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Cres Island, Croatia, Herpetozoa 19, 27-58. M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area 700

5.2 Short-term trend Period

2005-2016

5.3 Short-term trend Direction 5.4 Short-term trend Magnitude Unknown (x) 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

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Area (km²)

b) Operator

Approximately equal to (≈)

c) Unknown

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period

2005-2016

6.2 Population size (in reporting unit)

a) Unit

number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value

6.3 Type of estimate

Minimum

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

Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2005-2016

6.8 Short-term trend Direction

Unknown (x)

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6.9 Short-term trend Magnitude a) Minimum b) Maximum c) Confidence interval 6.10 Short-term trend Method used Insufficient or no data available 6.11 Long-term trend Period **6.12 Long-term trend Direction** a) Minimum 6.13 Long-term trend Magnitude b) Maximum c) Confidence interval 6.14 Long-term trend Method used 6.15 Favourable reference a) Population size population (using the unit in 6.2 or b) Operator c) Unknown X d) Method 6.16 Change and reason for change in population size The change is mainly due to: 6.17 Additional information 7. Habitat for the species 7.1 Sufficiency of area and quality of a) Are area and quality of occupied habitat Unknown occupied habitat sufficient (for long-term survival)? 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 Insufficient or no data available occupied habitat Method used 7.3 Short-term trend Period 2005-2016 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 8. Main pressures and threats 8.1 Characterisation of pressures/threats Ranking **Pressure**

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Ranking

Unknown pressure (Xu)

No information on threats (Xt)

Threat

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

No

b) Indicate the status of measures

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

Unknown

b) Population

Unknown

c) Habitat of the species

Unknown

10.2 Additional information

11. Conclusions

11.1. Range

Unknown (XX)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Unknown (XX)

11.4. Future prospects

Unknown (XX)

11.5 Overall assessment of

Unknown (XX)

Conservation Status

Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

- 12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)
- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

- 13.1 Justification of % thresholds for trends
- 13.2 Trans-boundary assessment
- 13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

De Luca, N., Kovačič, D., Đulić, B., 1990. Fauna vodozemaca, gmazova i sisavaca NP Krka, in: NP Kpka - Ekološka monografija 2. pp. 523–543.

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Schulz, K.-D., Philippen, H.-D., 1987. Erstnachweis eines melanistischen Exemplares von Algyroides nigropunctatus (DUMERIL & BIBRON, 1839) (Sauria: Lacertidae). Salamandra 23, 63–64.

Tóth, T., Farkas, B., Géczy, C., Molnár, Z., 2009. Herpetofaunal data from Ilovik and neighboring islets (Cres-Lošinj Archipelago, Croatia). Herpetozoa 22, 82–87. Tóth, T., Grillitsch, H., Farkas, B., Gál, J., Sušić, G., 2006. Herpetofaunal data from Cres Island, Croatia. Herpetozoa 19, 27–58.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area 14700

5.2 Short-term trend Period 2008-2018

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

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Area (km²)

b) Operator

c) Unknown x

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period 2008-2018

6.2 Population size (in reporting unit) a) U

a) Unit number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 157

6.3 Type of estimate

Minimum

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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

Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2008-2018

6.8 Short-term trend Direction

Unknown (x)

6.9 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

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
- c) Unknown
- Х

d) Method

6.16 Change and reason for change in population size

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

Based mainly on expert opinion with very limited data

7.3 Short-term trend Period

2008-2018

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

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7.9 Additional information

8. Main	pressures	and	threats
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8.1 Characterisation of pressures/threats

Pressure Ranking

Unknown pressure (Xu)

Threat Ranking

No information on threats (Xt)

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures

9.2 Main purpose of the measures

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 Unknown

b) Population Unknown
c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)

Conservation Status

11.6 Overall trend in Conservation

Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State HR 1.2 Species code 6341 1.3 Species scientific name Dalmatolacerta oxycephala 1.4 Alternative species scientific name

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	Yes

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

1.5 Common name (in national language) oštroglava gušterica

3.1 Is the species taken in the wild/exploited?
3.2 Which of the measures in Art. 14 have been taken?

No

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

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5. Range

5.1 Surface area 13400 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 5.9 Long-term trend Method used 5.10 Favourable reference range a) Area (km²)

b) Operator

c) Unknown x
d) Method

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5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

There is an isolated population in the town of Osor, on Cres Island, which was introduced several decades ago. Since then, it has beome established there, although localised. Here we consider it a part of the established range.

6. Population

6.1 Year or period 2007-2018

6.2 Population size (in reporting unit)

- a) Unit number of map 1x1 km grid cells (grids1x1)
- b) Minimum
- c) Maximum
- d) Best single value 207

6.3 Type of estimate

Minimum

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 Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2007-2018

6.8 Short-term trend Direction

Unknown (x)

6.9 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

- 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
- c) Unknown
- d) Method

6.16 Change and reason for change in population size

The change is mainly due to:

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Х

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)?

Based mainly on expert opinion with very limited data

7.2 Sufficiency of area and quality of occupied habitat Method used

7.3 Short-term trend Period

7.4 Short-term trend Direction

7.5 Short-term trend Method used

7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

2007-2018

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Threat	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	М
Change of habitat location, size, and / or quality due to climate change (N05)	M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

No

b) Indicate the status of measures

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- 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
- Unknown
- b) Population
- Unknown
- c) Habitat of the species
- Unknown

10.2 Additional information

11. Conclusions

11.1. Range

Unknown (XX)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Unknown (XX)

11.4. Future prospects

Unknown (XX)

11.5 Overall assessment of

Unknown (XX)

Conservation Status

in conservation status and conservation status trend

11.6 Overall trend in Conservation

Status

11.7 Change and reasons for change

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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
- b) Minimum
- c) Maximum
- d) Best single value

12.2 Type of estimate

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12.3 Population size inside the network Method used

12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information

1.1 Member State	HR
1.2 Species code	6342
1.3 Species scientific name	Dinarolacerta mosorensis
1.4 Alternative species scientific name	Lacerta mosorensis
1.5 Common name (in national language)	mosorska gušterica

2. Maps

2.1 Sensitive species	No
2.2 Year or period	1989-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	No

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

3.1 Is the species taken in the wild/exploited?
3.2 Which of the measures in A

3.2 Which of the measures in Art.14 have been taken?

No

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 quantity taken period Provide statistics/quantity per hunting sea year (where season is not used) over the reperiod						
	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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Bischoff, W., 1984. Lacerta mosorensis Kolombatović, 1886, Mosor-Eidechse, in: Böhme, W. (Ed.), Handbuch der Reptilien und Amphibien Europas, Echsen II (Lacerta). Aula Verlag, Wiesbaden, pp. 290–300.

Burić, I., Merdan, S., Lisičić, D., 2018. Top or bottom? Coexistence of two petrophilous lizard species on Mt. Biokovo, Croatia.

Džukić, G., 1989. Remarks on Distribution and Protection Problems of the Mosor Rock Lizard, Lacerta mosorensis Kolombatović, 1886 (Reptilia, Lacertidae). Biologia Gallo-helenica 15, 185–190.

Mršić, N., 1987. Prilog poznavanju gmazova (Reptilia) Biokova. Acta Biokovica 4, 277–306.

Podnar, M., Bruvo Mađarić, B., Mayer, W., 2014. Non-concordant phylogeographical patterns of three widely codistributed endemic Western Balkans lacertid lizards (Reptilia, Lacertidae) shaped by specific habitat requirements and different responses to Pleistocene climatic oscillations. Journal of Zoological Systematics and Evolutionary Research 52, 119–129.

https://doi.org/10.1111/jzs.12056

Šalamon, D., Sterijovski, B., Šilić, T., 2005. Inventarizacija herpetofaune Parka prirode "Biokovo," in: Mazija, M.V.V. (Ed.), Zbornik istraživačkih radova Udruge studenata biologije - BIUS u Parku prirode Biokovo. Udruga studenata biologije - BIUS, Zagreb, pp. 32–38.

Steindachner, F., 1892. Ueber die typischen Exemplare von Lacerta mosorensis Kolomb. (1886) (= Lacerta koritana Tom., 1889). Annalen des K.K.

Naturhistorischen Hofmuseums 8, 235–240.

Tvrtković, N., Kletečki, E., 1993. Preliminarna istraživanja terestričkih kralješnjaka Biokova. Acta Biokovica 6, 11–18.

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M. Zadravec, P. Gambiroža, 2019. Prvo izviešće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb

b) Maximum

b) Maximum

5.	Ra	ın	g	e

5.1 Surface area 1100

5.2 Short-term trend Period 2007-2018

5.3 Short-term trend Direction Unknown (x)

5.4 Short-term trend Magnitude

a) Minimum

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

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Minimum

a) Area (km²)

b) Operator

c) Unknown

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

Х

5.12 Additional information

Two locations, Opor and Kozjak, have not been confirmed in recent years. Research efforts in 2017 yielded no findings of this secretive and hard to find species. However, this does not necesarily mean it went extinct there, therefore the locations are still included in this report.

6. Population

6.1 Year or period

2007-2018

6.2 Population size (in reporting unit)

a) Unit

number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 25

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

Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2007-2018

6.8 Short-term trend Direction

Unknown (x)

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6.9 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

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
- c) Unknown
- d) Method

6.16 Change and reason for change in population size

The change is mainly due to:

6.17 Additional information

Two locations, Opor and Kozjak, have not been confirmed in recent years. Research efforts in 2017 yielded no findings of this secretive and hard to find species. However, this does not necesarily mean it went extinct there, therefore the finds from those locations are still included in the population size.

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

7.3 Short-term trend Period

7.4 Short-term trend Direction

7.5 Short-term trend Method used

7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

Insufficient or no data available

2007-2018

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

Change of habitat location, size, and / or quality due to

8.1 Characterisation of pressures/threats

Pressure Ranking

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M

cl	lim	ate	cha	nge	(NO	5)

chinate change (1100)	
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Threat	Ranking
Change of habitat location, size, and / or quality due to climate change (N05)	Н
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Creation or development of sports, tourism and leisure infrastructure (outside the urban or recreational areas) (F05)	М

M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

Wind, wave and tidal power, including infrastructure (D01)

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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

Unknown

b) Population

Unknown

c) Habitat of the species

Unknown

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)

Conservation Status

11.6 Overall trend in Conservation

Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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 24

12.2 Type of estimate

12.3 Population size inside the network Method used

Minimum

Based mainly on expert opinion with very limited 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

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State 1.2 Species code 1.3 Species scientific name 1.4 Alternative species scientific name 1.5 Common name (in national language) Horvatova gušterica

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Insufficient or no data available
2.5 Additional maps	No

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

3.1 Is the species taken in the wild/exploited?
3.2 Which of the measures in Art 14 have been taken?

No

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		statistics/quantity per hunting season or per nere season is not used) over the reporting				
	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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Alpine (ALP)

Jelić, D., Kuljerić, M., Koren, T., Treer, D., Šalamon, D., Lončar, M., Podnar Lešić, M., Janev Hutinec, B., Bogdanović, T., Mekinić, S., Jelić, K., 2012. Crvena knjiga vodozemaca i gmazova Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Republika Hrvatska.

Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235–240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area 2000
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

5.9 Long-term trend Method used

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5.10 Favourable reference range	a) Area (km²) b) Operator c) Unknown x d) Method
5.11 Change and reason for change in surface area of range	The change is mainly due to:
5.12 Additional information	
6. Population	
6.1 Year or period	2007-2018
6.2 Population size (in reporting unit)	a) Unit number of map 1x1 km grid cells (grids1x1) b) Minimum c) Maximum d) Best single value 14
6.3 Type of estimate	Minimum
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	Based mainly on expert opinion with very limited data
6.7 Short-term trend Period	2007-2018
6.8 Short-term trend Direction	Unknown (x)
6.9 Short-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval
6.10 Short-term trend Method used	Insufficient or no data available
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 c) Unknown x d) Method

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6.16 Change and reason for change in population size

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)?

habitat of suitable quality (for long-term

b) Is there a sufficiently large area of unoccupied

Unknown

7.2 Sufficiency of area and quality of

Insufficient or no data available

occupied habitat Method used
7.3 Short-term trend Period

2007-2018

survival)?

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
No information on pressures (Xp)	
Threat	Ranking
Change of habitat location, size, and / or quality due to climate change (N05)	Н
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (LO5)	M

para Litara

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

No

b) Indicate the status of measures

9.2 Main purpose of the measures

9.3 Location of the measures taken

9.4 Response to the measures

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9.5 List of main conservation measures

9.6 Additional information

10. Future prospects

10.1 Future prospects of parameters

- a) Range
- Unknown
- b) Population
- Unknown
- c) Habitat of the species
- Unknown

10.2 Additional information

11. Conclusions

11.1. Range

Unknown (XX)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Unknown (XX)

11.4. Future prospects

Unknown (XX)

11.5 Overall assessment of

Conservation Status

Unknown (XX)

11.6 Overall trend in Conservation

Status

a) Overall assessment of conservation status

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

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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
- b) Minimum
- c) Maximum
- d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction

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12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Jelić, D., Kuljerić, M., Koren, T., Treer, D., Šalamon, D., Lončar, M., Podnar Lešić, M., Janev Hutinec, B., Bogdanović, T., Mekinić, S., Jelić, K., 2012. Crvena knjiga vodozemaca i gmazova Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Republika Hrvatska.

Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235–240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area 800 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 b) Maximum a) Minimum 5.9 Long-term trend Method used 5.10 Favourable reference range a) Area (km²)

b) Operator

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c) Unknown Х d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period 2007-2018

6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1)

> b) Minimum c) Maximum

d) Best single value 21

6.3 Type of estimate Minimum

6.4 Additional population size (using population unit other than reporting b) Minimum unit)

a) Unit

c) Maximum

d) Best single value

6.5 Type of estimate

6.6 Population size Method used Based mainly on expert opinion with very limited data

6.7 Short-term trend Period 2007-2018

6.8 Short-term trend Direction Unknown (x)

6.9 Short-term trend Magnitude a) Minimum b) Maximum

c) Confidence interval

6.10 Short-term trend Method used Insufficient or no data available

6.12 Long-term trend Direction

6.11 Long-term trend Period

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

c) Unknown Χ

d) Method

6.16 Change and reason for change in population size

The change is mainly due to:

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6.17 Additional information

7. I	Hab	itat	for	the	spe	cies

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

Insufficient or no data available

occupied habitat Method used 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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
No information on pressures (Xp)	
Threat	Ranking
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (LO5)	М
Change of habitat location, size, and / or quality due to climate change (N05)	Н

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

No

b) Indicate the status of measures

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 Unknown

b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)
Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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

- b) Minimum
- c) Maximum
- d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

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13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State 1.2 Species code 1.3 Species scientific name 1.4 Alternative species scientific name

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	Yes

livadna gušterica

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

No

3.1 Is the species taken in the wild/exploited?
3.2 Which of the measures in Art. 14 have been taken?

1.5 Common name (in national language)

a) regulations regarding access to property No b) temporary or local prohibition of the taking of No specimens in the wild and exploitation c) regulation of the periods and/or methods of taking No specimens d) application of hunting and fishing rules which take No account of the conservation of such populations e) establishment of a system of licences for taking No specimens or of quotas f) regulation of the purchase, sale, offering for sale, No keeping for sale or transport for sale of specimens

No

No

g) breeding in captivity of animal species as well as

artificial propagation of plant species

h) other measures

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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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Alpine (ALP)

Baškiera, S., Koller, K., 2016. Istraživanje vodozemaca i gmazova na području šume Žutice, izvještaj za 2016. godinu (završni izvještaj). Hrvatsko herpetološko društvo – Hyla, Zagreb.

Cesarec, R., Zadravec, M., 2018. First record of the erythronotus color morph in Lacerta agilis bosnica SCHREIBER, 1912, from Croatia. Herpetozoa 31, 101–102. Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., 2010. First record of the erythronotus coloration morph in Lacerta agilis argus Laurenti, 1768 from Croatia. Natura Croatica 19, 459–462.

Vilaj, I., 2014. Doprinos poznavanju herpetofaune otoka Hvara, in: Barišić, M., Burić, I., Gazić, M., Sučić, I. (Eds.), Istraživanje bioraznolikosti otoka Hvara 2011. Udruga studenata biologije - BIUS, Zagreb, pp. 136–156.

Vilaj, I., Dvorski, P., 2014. First record of the erythronotus colouration in a female individual Lacerta agilis (Laurenti, 1768) in Croatia. Hyla: Herpetological bulletin 2014, 25–26.

Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235–240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

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5. Range

5.1 Surface area	6200
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
5.9 Long-term trend Method used

5.10 Favourable reference range a) Area (km²) b) Operator

c) Unknown x

d) Method

in surface area of range

The change is mainly due to:

5.12 Additional information

5.11 Change and reason for change

6. Population

6.1 Year or period

2007-2018

6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 98

u/ =350 311 315 315

6.3 Type of estimate Minimum

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 Based mainly on expert opinion with very limited data

6.7 Short-term trend Period 2007-2018

6.8 Short-term trend Direction Unknown (x)

6.9 Short-term trend Magnitude a) Minimum b) Maximum

c) Confidence interval

6.10 Short-term trend Method used Insufficient or no data available

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- 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
- c) Unknown
- Х
- d) Method
- 6.16 Change and reason for change in population size

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

Based mainly on expert opinion with very limited data

7.3 Short-term trend Period

7.4 Short-term trend Direction

7.5 Short-term trend Method used

7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

2007-2018

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Use of plant protection chemicals in agriculture (A21)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Intensive grazing or overgrazing by livestock (A09)	M
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	M
Threat	Ranking

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Conversion into agricultural land (excluding drainage and burning) (A01)	M
Intensive grazing or overgrazing by livestock (A09)	M
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	М
Change of habitat location, size, and / or quality due to climate change (N05)	Н

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

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 Unknown b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

Conservation Status

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)

11.6 Overall trend in Conservation

Status

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

a) Overall assessment of conservation status

The change is mainly due to:

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b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

- 12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)
- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

- 13.1 Justification of % thresholds for trends
- 13.2 Trans-boundary assessment
- 13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Continental (CON)

Baškiera, S., Koller, K., 2016. Istraživanje vodozemaca i gmazova na području šume Žutice, izvještaj za 2016. godinu (završni izvještaj). Hrvatsko herpetološko društvo – Hyla, Zagreb.

Cesarec, R., Zadravec, M., 2018. First record of the erythronotus color morph in Lacerta agilis bosnica SCHREIBER, 1912, from Croatia. Herpetozoa 31, 101–102. Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017.

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The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57-104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., 2010. First record of the erythronotus coloration morph in Lacerta agilis argus Laurenti, 1768 from Croatia. Natura Croatica 19, 459-462.

Vilaj, I., 2014. Doprinos poznavanju herpetofaune otoka Hvara, in: Barišić, M., Burić, I., Gazić, M., Sučić, I. (Eds.), Istraživanje bioraznolikosti otoka Hvara 2011. Udruga studenata biologije - BIUS, Zagreb, pp. 136-156.

Vilaj, I., Dvorski, P., 2014. First record of the erythronotus colouration in a female individual Lacerta agilis (Laurenti, 1768) in Croatia. Hyla: Herpetological bulletin 2014, 25-26.

Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235-240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

b) Maximum

5. Range

5.1 Surface area

5.2 Short-term trend Period 5.3 Short-term trend Direction

5.4 Short-term trend Magnitude

5.5 Short-term trend Method used

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

5.9 Long-term trend Method used

5.10 Favourable reference range

5.11 Change and reason for change in surface area of range

25600

2007-2018

Unknown (x)

b) Maximum a) Minimum

Insufficient or no data available

a) Minimum

a) Area (km²)

b) Operator

c) Unknown Х

d) Method

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period 2007-2018

6.2 Population size (in reporting unit)

number of map 1x1 km grid cells (grids1x1)

b) Minimum

a) Unit

c) Maximum

d) Best single value 232

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ii, iv aliu v species (Alii	nex bj	
6.3 Type of estimate	Minimum	
6.4 Additional population size (using population unit other than reporting unit)	a) Unitb) Minimumc) Maximumd) Best single value	
6.5 Type of estimate		
6.6 Population size Method used	Based mainly on expert opinion with very limited	data
6.7 Short-term trend Period	2007-2018	
6.8 Short-term trend Direction	Unknown (x)	
6.9 Short-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval	
6.10 Short-term trend Method used	Insufficient or no data available	
6.11 Long-term trend Period		
6.12 Long-term trend Direction		
6.13 Long-term trend Magnitude	a) Minimumb) Maximumc) 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 c) Unknown x d) Method 	
6.16 Change and reason for change in population size	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)?	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		

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7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Use of plant protection chemicals in agriculture (A21)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Conversion from one type of agricultural land use to another (excluding drainage and burning) (A02)	М
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	M
Threat	Ranking
Use of plant protection chemicals in agriculture (A21)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Conversion from one type of agricultural land use to another (excluding drainage and burning) (A02)	М
Change of habitat location, size, and / or quality due to climate change (N05)	М
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	Н

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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

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10.1 Future prospects of parameters

a) Range Unknown

b) Population Unknown
c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)
Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

12.1 Population size inside the pSCls, SCls and SACs network (on the biogeographical/marine level including all sites where the species is present)

a) Unit

- b) Minimum
- c) Maximum
- 0.5

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

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13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State HR 1.2 Species code 5179 1.3 Species scientific name Lacerta bilineata 1.4 Alternative species scientific name 1.5 Common name (in national language) zapadnomediteranski zelembać

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2016
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited 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?
3.2 Which of the measures in Art. 14 have been taken?

No

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Marzahn, E., Mayer, W., Joger, U., Ilgaz, Ç., Jablonski, D., Kindler, C., Kumlutaş, Y., Nistri, A., Schneeweiss, N., Vamberger, M., Žagar, A., Fritz, U., 2016. Phylogeography of the Lacerta viridis complex: mitochondrial and nuclear markers provide taxonomic insights. Journal of Zoological Systematics and Evolutionary Research n/a-n/a. https://doi.org/10.1111/jzs.12115
Tóth, T., Farkas, B., Géczy, C., Molnár, Z., 2009. Herpetofaunal data from Ilovik and neighboring islets (Cres-Lošinj Archipelago, Croatia). Herpetozoa 22, 82–87. M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area 1900

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

5.9 Long-term trend Method used

5.10 Favourable reference range a) Area (km²)

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- b) Operator
- Approximately equal to (≈)
- c) Unknown
- d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

According to the latest (phylo)genetic research, L. bilineata is curently only reliably known from Cres island in Croatia. Records from other areas are thus discounted. This may or may not change in the future, as additional samples are analised (Marzahn et al., 2016).

6. Population

6.1 Year or period

2007-2018

6.2 Population size (in reporting unit)

- a) Unit
- number of map 1x1 km grid cells (grids1x1)
- b) Minimum
- c) Maximum
- d) Best single value 1

6.3 Type of estimate

Minimum

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

Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2007-2018

6.8 Short-term trend Direction

Unknown (x)

6.9 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

6.11 Long-term trend Period

o.11 Long-term trend remod

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

Much more than (>>)

c) Unknown

d) Method

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6.16 Change and reason for change in population size

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

Based mainly on expert opinion with very limited data

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Abandonment of management/use of other agricultural and agroforestry systems (all except grassland) (A07)	М
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (LO5)	M
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M
Threat	Ranking
Abandonment of management/use of other agricultural and agroforestry systems (all except grassland) (A07)	M
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (L05)	М
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M

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8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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

Unknown

b) Population

Unknown

c) Habitat of the species

Unknown

10.2 Additional information

11. Conclusions

11.1. Range

11.2. Population

.1. Hange

11.3. Habitat for the species

11.4. Future prospects

11.5 Overall assessment of

Conservation Status

11.6 Overall trend in Conservation Status

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

Unknown (XX)

Unfavourable - Bad (U2)

Unknown (XX)

Unknown (XX)

Unfavourable - Bad (U2)

Unknown (x)

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

Although 11.2 and 11.5 are here reported as in the red, this does not necessarily reflect a bad condition in reality. In stead, the former is simply because of a lack of records, after recent (phylo)genetic studies, while the latter results from the former.

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

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
- b) Minimum
- c) Maximum
- d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State 1.2 Species code 1.3 Species scientific name 1.4 Alternative species scientific name 1.5 Common name (in national language) veliki zelembać

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	Yes

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

No

3.1 Is the species taken in the wild/exploited?
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 No specimens in the wild and exploitation c) regulation of the periods and/or methods of taking No specimens d) application of hunting and fishing rules which take No account of the conservation of such populations e) establishment of a system of licences for taking No specimens or of quotas f) regulation of the purchase, sale, offering for sale, No keeping for sale or transport for sale of specimens g) breeding in captivity of animal species as well as No

No

artificial propagation of plant species

h) other measures

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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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Alpine (ALP)

235-240.

Dajčman, U., 2017. Poročilo o delu skupine za plazilce, in: Ekosistemi Balkana, Vransko jezero 2016. Društvo študentov biologije, Ljubljana, pp. 66–72. Drašler, K., 2014. Poročilo o delu skupine za plazilce, in: Ekosistemi Jadrana 2011 - delta Neretve. Društvo študentov biologije, Ljubljana, pp. 35–41. Durbešić, P., Đulić, B., 1989. Preliminarni podaci o istraženosti kopnene faune otoka Lokruma, in: Zbornik radova sa Simpozija održanog od 8. - 11.9.1987. u Dubrovniku u organizaciji Sveučilišta u Zagrebu. Hrvatsko ekološko društvo, Dubrovnik, pp. 265–277.

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Schweiger, M., 2008. Report on my trips to the Croatian island Krk, from May 11th till May 17th, and from July 3rd till July 12th 2008. VipersGarden - Amphibians and Reptiles of Europe and the Mediterranean. URL http://vipersgarden.at/reports/krk08.php (accessed 10.26.18). Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23,

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

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5. Range

5.1 Surface area 100

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

5.9 Long-term trend Method used
5.10 Favourable reference range
a) Area (km²)

a) Area (km²) b) Operator

c) Unknown x

d) Method

in surface area of range

The change is mainly due to:

5.12 Additional information

5.11 Change and reason for change

6. Population

6.1 Year or period 2007-2018

6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 1

6.3 Type of estimate Minimum

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 Based mainly on expert opinion with very limited data

b) Maximum

6.7 Short-term trend Period 2007-2018

6.8 Short-term trend Direction Unknown (x)

6.9 Short-term trend Magnitude a) Minimum

c) Confidence interval

6.10 Short-term trend Method used Insufficient or no data available

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- 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
- c) Unknown
- d) Method

6.16 Change and reason for change in population size

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)?
- 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
- 7.3 Short-term trend Period
- 7.4 Short-term trend Direction
- 7.5 Short-term trend Method used
- 7.6 Long-term trend Period
- 7.7 Long-term trend Direction
- 7.8 Long-term trend Method used
- 7.9 Additional information

Insufficient or no data available

2007-2018

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Abandonment of management/use of other agricultural and agroforestry systems (all except grassland) (A07)	M
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (L05)	М

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Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M
Threat	Ranking
Abandonment of management/use of other agricultural and agroforestry systems (all except grassland) (A07)	M
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (LO5)	M
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M
0.2.6	

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

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 Unknown b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range	Unknown (XX)
11.2. Population	Unknown (XX)
11.3. Habitat for the species	Unknown (XX)
11.4. Future prospects	Unknown (XX)
11.5 Overall assessment of	Unknown (XX)

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11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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

- b) Minimum

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

c) Maximum d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs **Mediterranean (MED)**

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4.2 Sources of information

Dajčman, U., 2017. Poročilo o delu skupine za plazilce, in: Ekosistemi Balkana, Vransko jezero 2016. Društvo študentov biologije, Ljubljana, pp. 66–72. Drašler, K., 2014. Poročilo o delu skupine za plazilce, in: Ekosistemi Jadrana 2011 - delta Neretve. Društvo študentov biologije, Ljubljana, pp. 35–41. Durbešić, P., Đulić, B., 1989. Preliminarni podaci o istraženosti kopnene faune otoka Lokruma, in: Zbornik radova sa Simpozija održanog od 8. - 11.9.1987. u Dubrovniku u organizaciji Sveučilišta u Zagrebu. Hrvatsko ekološko društvo, Dubrovnik, pp. 265–277.

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Schweiger, M., 2008. Report on my trips to the Croatian island Krk, from May 11th till May 17th, and from July 3rd till July 12th 2008. VipersGarden - Amphibians and Reptiles of Europe and the Mediterranean. URL http://vipersgarden.at/reports/krk08.php (accessed 10.26.18). Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235–240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area 16400
5.2 Short-term trend Period 2007-2018
5.3 Short-term trend Direction Unknown (x)
5.4 Short-term trend Magnitude a) Minimum

/linimum b) Maximum

Insufficient or no data available

5.5 Short-term trend Method used5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Minimum

b) Maximum

a) Area (km²)

b) Operator

c) Unknown x

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

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6.1 Year or period	2007-2018		
6.2 Population size (in reporting unit)	a) Unit b) Minimum c) Maximum d) Best single value	number of map 1x1 km grid o	cells (grids1x1)
6.3 Type of estimate	Minimum		
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	Based mainly on exp	ert opinion with very limited d	ata
6.7 Short-term trend Period	2007-2018		
6.8 Short-term trend Direction	Unknown (x)		
6.9 Short-term trend Magnitude	a) Minimum b) Maximum c) Confidence interva	ıl	
6.10 Short-term trend Method used	Insufficient or no dat	a available	
6.11 Long-term trend Period			
6.12 Long-term trend Direction			
6.13 Long-term trend Magnitude	a) Minimumb) Maximumc) Confidence interval	il	
6.14 Long-term trend Method used			
6.15 Favourable reference population (using the unit in 6.2 or 6.4)	a) Population sizeb) Operatorc) Unknownd) Method	x	
6.16 Change and reason for change in population size	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 qual sufficient (for long-t	ity of occupied habitat erm survival)?	Yes

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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

7.3 Short-term trend Period

7.4 Short-term trend Direction

7.5 Short-term trend Method used

7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

Based mainly on expert opinion with very limited data

2007-2018

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Abandonment of management/use of other agricultural and agroforestry systems (all except grassland) (A07)	М
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (L05)	M
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M
Threat	Ranking
Threat Abandonment of management/use of other agricultural and agroforestry systems (all except grassland) (A07)	Ranking M
Abandonment of management/use of other agricultural and	
Abandonment of management/use of other agricultural and agroforestry systems (all except grassland) (A07) Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open	M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

9.2 Main purpose of the measures taken

9.3 Location of the measures taken

9.4 Response to the measures

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9.5 List of main conservation measures

9.6 Additional information

10. Future prospects

10.1 Future prospects of parameters

- a) Range
- Unknown
- b) Population
- Unknown
- c) Habitat of the species
- Unknown

10.2 Additional information

11. Conclusions

11.1. Range

Unknown (XX)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Unknown (XX)

11.4. Future prospects

Unknown (XX)

11.5 Overall assessment of

Unknown (XX)

Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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
- b) Minimum
- c) Maximum
- d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction

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12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State HR

Lacerta viridis 1.3 Species scientific name

1.4 Alternative species scientific name

1.5 Common name (in national language) zelembać

2. Maps

1.2 Species code

2.1 Sensitive species No

2007-2018 2.2 Year or period

2.3 Distribution map Yes

2.4 Distribution map Method used Based mainly on expert opinion with very limited data

1263

2.5 Additional maps Yes

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

3.1 Is the species taken in the wild/exploited?

3.2 Which of the measures in Art. 14 have been taken?

No

a) regulations regarding access to property

No

No

No

No

b) temporary or local prohibition of the taking of specimens in the wild and exploitation

c) regulation of the periods and/or methods of taking specimens

d) application of hunting and fishing rules which take account of the conservation of such populations

e) establishment of a system of licences for taking specimens or of quotas

No

f) regulation of the purchase, sale, offering for sale,

No

keeping for sale or transport for sale of specimens g) breeding in captivity of animal species as well as

No

artificial propagation of plant species

No

h) other measures

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

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Continental (CON)

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57-104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22-41.

Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235-240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area

30500

5.2 Short-term trend Period

2007-2018

5.3 Short-term trend Direction

Unknown (x) a) Minimum

b) Maximum

5.4 Short-term trend Magnitude 5.5 Short-term trend Method used

Insufficient or no data available

5.6 Long-term trend Period 5.7 Long-term trend Direction

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5.8 Long-term trend Magnitude a) Minimum b) Maximum 5.9 Long-term trend Method used 5.10 Favourable reference range a) Area (km²) b) Operator Approximately equal to (≈) c) Unknown d) Method 5.11 Change and reason for change in surface area of range The change is mainly due to: 5.12 Additional information 6. Population 6.1 Year or period 2007-2018 6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1) b) Minimum c) Maximum d) Best single value 384 6.3 Type of estimate Minimum 6.4 Additional population size (using a) Unit population unit other than reporting b) Minimum unit) c) Maximum d) Best single value 6.5 Type of estimate 6.6 Population size Method used Based mainly on expert opinion with very limited data 6.7 Short-term trend Period 2007-2018 6.8 Short-term trend Direction Unknown (x) 6.9 Short-term trend Magnitude a) Minimum b) Maximum c) Confidence interval 6.10 Short-term trend Method used Insufficient or no data available 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 a) Population size population (using the unit in 6.2 or b) Operator

c) Unknown

6.4)

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d) Method

6.16 Change and reason for change in population size

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)?

habitat of suitable quality (for long-term

b) Is there a sufficiently large area of unoccupied

Unknown

y of

7.2 Sufficiency of area and quality of occupied habitat Method used

7.3 Short-term trend Period

7.4 Short-term trend Direction

7.5 Short-term trend Method used

7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

Insufficient or no data available

2007-2018

survival)?

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	M
Use of plant protection chemicals in agriculture (A21)	M
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	М
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Threat	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	М
Use of plant protection chemicals in agriculture (A21)	M

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Interspecific relations (competition, predation, parasitism, pathogens) (L06)

Roads, paths, railroads and related infrastructure (e.g. M bridges, viaducts, tunnels) (E01)

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

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 Unknown b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)

Conservation Status

11.6 Overall trend in Conservation

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

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11.8 Additional information

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

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

- b) Minimum
- c) Maximum
- d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Alpine (ALP)

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22–41.

Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235–240.

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M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5.	R	a	n	g	e
_		_			_

5.1 Surface area 10300

5.2 Short-term trend Period 2007-2018

5.3 Short-term trend Direction Unknown (x)

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

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 b) Maximum a) Minimum

5.9 Long-term trend Method used

5.10 Favourable reference range a) Area (km²) Approximately equal to (≈)

b) Operator c) Unknown

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period 2007-2018

6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 162

6.3 Type of estimate **Minimum**

6.4 Additional population size (using a) Unit population unit other than reporting b) Minimum unit)

c) Maximum

d) Best single value

6.5 Type of estimate

6.6 Population size Method used Based mainly on expert opinion with very limited data

6.7 Short-term trend Period 2007-2018

6.8 Short-term trend Direction Unknown (x)

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ii, iv alid v species (Ali		
6.9 Short-term trend Magnitude	a) Minimumb) Maximumc) Confidence interval	
6.10 Short-term trend Method used	Insufficient or no data available	
6.11 Long-term trend Period		
6.12 Long-term trend Direction		
6.13 Long-term trend Magnitude	a) Minimumb) Maximumc) 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 c) Unknown x d) Method 	
6.16 Change and reason for change in population size	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	Based mainly on expert opinion with very limited	data
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		
8. Main pressures and thre	eats	
8.1 Characterisation of pressures/thre	ats	
Pressure	Ranking	
8.1 Characterisation of pressures/thre	ats Ranking	

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parcel consolidation (hedges, stone walls, rushes, open

ditches, springs, solitary trees, etc.) (A05)

Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	M
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	М
Threat	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	М
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

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 Unknown b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range	Unknown (XX)
11.2. Population	Unknown (XX)
11.3. Habitat for the species	Unknown (XX)
11.4. Future prospects	Unknown (XX)
11.5 Overall assessment of Conservation Status	Unknown (XX)

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11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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

- b) Minimum

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- c) Maximum
- d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs **Mediterranean (MED)**

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4.2 Sources of information

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57-104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22-41.

Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235-240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area

5.2 Short-term trend Period

5.3 Short-term trend Direction 5.4 Short-term trend Magnitude

5.5 Short-term trend Method used

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

5.9 Long-term trend Method used

5.10 Favourable reference range

5.11 Change and reason for change in surface area of range

7800

2007-2018

Unknown (x)

a) Minimum

Insufficient or no data available

a) Minimum

b) Maximum

b) Maximum

a) Area (km²)

b) Operator

c) Unknown Х

d) Method

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period

2007-2018

6.2 Population size (in reporting unit)

a) Unit

number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 72

6.3 Type of estimate

Minimum

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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

Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2007-2018

6.8 Short-term trend Direction

Unknown (x)

6.9 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

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
- c) Unknown
- х

d) Method
6.16 Change and reason for change

in population size

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

Based mainly on expert opinion with very limited data

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

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7.9 Additional information

Q	Main	pressures	and th	roate
Ο.	ıvıaııı	pi essui es	allu u	II Eats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Abandonment of management/use of other agricultural and agroforestry systems (all except grassland) (A07)	M
Interspecific relations (competition, predation, parasitism, pathogens) (LO6)	M
Threat	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Abandonment of management/use of other agricultural and agroforestry systems (all except grassland) (A07)	М
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	М

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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

Unknown

b) Population

Unknown

c) Habitat of the species

Unknown

10.2 Additional information

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11. Conclusions

11.1. Range Unknown (XX) 11.2. Population

11.3. Habitat for the species Unknown (XX)

Unknown (XX) 11.4. Future prospects

11.5 Overall assessment of Unknown (XX)

Conservation Status

Status a) Overall assessment of conservation status 11.7 Change and reasons for change

Unknown (XX)

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

in conservation status and conservation status trend

11.6 Overall trend in Conservation

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

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

12.2 Type of estimate

12.3 Population size inside the network Method used

12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State HR 1.2 Species code 1241 1.3 Species scientific name Podarcis melisellensis 1.4 Alternative species scientific name 1.5 Common name (in national language) krška gušterica

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited 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?
3.2 Which of the measures in Art. 14 have been taken?

No

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Alpine (ALP)

Bruno, S., 1988. L'erpetofauna delle isole di Cres, Krk e Ada (Jugoslavia-Albania). Bull. Ecol. 19, 265–281.

Budinski, I., Kuljerić, M., Jelić, D., Čulina, A., 2008. Vodozemci i gmazovi Nacionalnog parka Mljet. Rasprostranjenost, ugroženost i mjere zaštite. Hrvatsko herpetološko društvo – Hyla, Zagreb.

Drašler, K., 2014. Poročilo o delu skupine za plazilce, in: Ekosistemi Jadrana 2011 - delta Neretve. Društvo študentov biologije, Ljubljana, pp. 35–41. Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Koren, T., Lauš, B., Burić, I., Kuljerić, M., 2011. Contribution to the herpetofauna (amphibians & reptiles) of the Kornati archipelago, Croatia. Natura Croatica 20, 387–396.

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O., Gál, J., 2017. Herpetofauna inventory of the small islands of the Cres-Lošinj Archipelago (North Adriatic Sea, Croatia) (Amphibia; Reptilia). Herpetozoa 30, 21-28.

Vamberger, M., 2012. Poročilo skupine za dvoživke in plazilce, in: Ekosistemi Jadrana, Pag 2007. Društvo študentov biologije, Ljubljana, pp. 10–17. Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235-240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area

5.2 Short-term trend Period

5.3 Short-term trend Direction

5.4 Short-term trend Magnitude

5.5 Short-term trend Method used

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Area (km²)

5.11 Change and reason for change in surface area of range

3000

2007-2018

Unknown (x)

a) Minimum

b) Maximum Insufficient or no data available

b) Maximum

a) Minimum

b) Operator

c) Unknown Х

d) Method

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period

2007-2018

6.2 Population size (in reporting unit)

a) Unit

number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 36

6.3 Type of estimate

Minimum

6.4 Additional population size (using population unit other than reporting unit)

a) Unit

b) Minimum

c) Maximum

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	d) Best single value	
6.5 Type of estimate		
6.6 Population size Method used	Based mainly on expert opinion with very limited d	ata
6.7 Short-term trend Period	2007-2018	
6.8 Short-term trend Direction	Unknown (x)	
6.9 Short-term trend Magnitude	a) Minimumb) Maximumc) Confidence interval	
6.10 Short-term trend Method used	Insufficient or no data available	
6.11 Long-term trend Period		
6.12 Long-term trend Direction		
6.13 Long-term trend Magnitude	a) Minimumb) Maximumc) 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 c) Unknown x	
	d) Method	
6.16 Change and reason for change in population size	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)?	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		

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8. Main pressures and threats

Pressure	Ranking
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M
Invasive alien species of Union concern (I01)	M
Threat	Ranking
Threat Interspecific relations (competition, predation, parasitism, pathogens) (L06)	Ranking M

8.2 Sources of information

8.3 Additional information IAS union concern: Herpestes javanicus É. Geoffroy Saint-Hilaire, 1818;

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

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 Unknown b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range	Unknown (XX)
11.2. Population	Unknown (XX)
11.3. Habitat for the species	Unknown (XX)
11.4. Future prospects	Unknown (XX)
11.5 Overall assessment of	Unknown (XX)

Conservation Status

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11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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

- b) Minimum
- c) Maximum

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs **Mediterranean (MED)**

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4.2 Sources of information

Bruno, S., 1988. L'erpetofauna delle isole di Cres, Krk e Ada (Jugoslavia-Albania). Bull. Ecol. 19, 265-281.

Budinski, I., Kuljerić, M., Jelić, D., Čulina, A., 2008. Vodozemci i gmazovi Nacionalnog parka Mljet. Rasprostranjenost, ugroženost i mjere zaštite. Hrvatsko herpetološko društvo – Hyla, Zagreb.

Drašler, K., 2014. Poročilo o delu skupine za plazilce, in: Ekosistemi Jadrana 2011 - delta Neretve. Društvo študentov biologije, Ljubljana, pp. 35–41. Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57-104. https://doi.org/10.5937/bnhmb1710057D

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19-40. Koren, T., Lauš, B., Burić, I., Kuljerić, M., 2011. Contribution to the herpetofauna (amphibians & reptiles) of the Kornati archipelago, Croatia. Natura Croatica 20, 387-396.

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Sopotnik, M., Vamberger, M., 2016. Poročilno skupin za dvoživke in plazilce, in: Ekosistemi Jadrana - Mljet 2008, Ekosistemi Jadrana. Društvo študentov biologije, Ljubljana, pp. 38-42.

Tóth, T., Farkas, B., Géczy, C., Molnár, Z., 2009. Herpetofaunal data from Ilovik and neighboring islets (Cres-Lošinj Archipelago, Croatia). Herpetozoa 22, 82-87. Tóth, T., Heltai, M., Keszi, A., Sušić, G., Moharos, L., Farkas, B., Géczy, C., Torda, O., Gál, J., 2017. Herpetofauna inventory of the small islands of the Cres-Lošinj Archipelago (North Adriatic Sea, Croatia) (Amphibia; Reptilia). Herpetozoa 30, 21-28.

Vamberger, M., 2012. Poročilo skupine za dvoživke in plazilce, in: Ekosistemi Jadrana, Pag 2007. Društvo študentov biologije, Ljubljana, pp. 10–17. Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235-240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area 33400 5.2 Short-term trend Period 2007-2018 5.3 Short-term trend Direction Stable (0) 5.4 Short-term trend Magnitude b) Maximum a) Minimum 5.5 Short-term trend Method used Based mainly on expert opinion with very limited data 5.6 Long-term trend Period 5.7 Long-term trend Direction 5.8 Long-term trend Magnitude a) Minimum 5.9 Long-term trend Method used 5.10 Favourable reference range

b) Maximum

a) Area (km²)

b) Operator Approximately equal to (≈)

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- c) Unknown
- d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

2007-2018 6.1 Year or period

6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1)

- b) Minimum
- c) Maximum
- d) Best single value 841

6.3 Type of estimate Minimum

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 Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2007-2018

6.8 Short-term trend Direction

Unknown (x)

6.9 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

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
- c) Unknown X
- d) Method

6.16 Change and reason for change in population size

The change is mainly due to:

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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

Based mainly on expert opinion with very limited data

2007-2018

7.4 Short-term trend Direction

7.3 Short-term trend Period

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	М
Invasive alien species of Union concern (I01)	M
Threat	Ranking
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	М
Invasive alien species of Union concern (I01)	M

8.2 Sources of information

8.3 Additional information

IAS union concern: Herpestes javanicus É. Geoffroy Saint-Hilaire, 1818;

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

9.2 Main purpose of the measures

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

Unknown b) Population

c) Habitat of the species

Unknown

10.2 Additional information

11. Conclusions

11.1. Range

11.2. Population

11.3. Habitat for the species

11.4. Future prospects

11.5 Overall assessment of **Conservation Status**

11.6 Overall trend in Conservation Status

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

Favourable (FV)

Unknown (XX)

Unknown (XX)

Unknown (XX)

Unknown (XX)

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

12.2 Type of estimate

12.3 Population size inside the network Method used

12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

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12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State HR 1.2 Species code 1256 1.3 Species scientific name Podarcis muralis 1.4 Alternative species scientific name 1.5 Common name (in national language) zidna gušterica

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	Yes

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

No

3.1 Is the species taken in the wild/exploited?
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 No specimens in the wild and exploitation c) regulation of the periods and/or methods of taking No specimens d) application of hunting and fishing rules which take No account of the conservation of such populations e) establishment of a system of licences for taking No specimens or of quotas f) regulation of the purchase, sale, offering for sale, No keeping for sale or transport for sale of specimens g) breeding in captivity of animal species as well as No artificial propagation of plant species 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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22–41.

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235–240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area

14900

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

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ii, iv alid v species (Alii	ick bj
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
5.9 Long-term trend Method used	
5.10 Favourable reference range	a) Area (km²)
	b) Operator c) Unknown x
	d) Method
5.11 Change and reason for change	
in surface area of range	The change is mainly due to:
	The change is mainly due to:
5.12 Additional information	
6. Population	
6.1 Year or period	2007-2018
ora roan or porroa	
6.2 Population size (in reporting unit)	a) Unit number of map 1x1 km grid cells (grids1x1)
	b) Minimum
	c) Maximum
	d) Best single value 157
6.3 Type of estimate	Minimum
6.4 Additional population size (using	a V Umite
population unit other than reporting	a) Unit
unit)	b) Minimum c) Maximum
	d) Best single value
6.5 Type of estimate	a) best single value
6.6 Population size Method used	Based mainly on expert opinion with very limited data
6.7 Short-term trend Period	2007-2018
6.8 Short-term trend Direction	Unknown (x)
6.9 Short-term trend Magnitude	a) Minimum
	b) Maximum
	c) Confidence interval
6.10 Short-term trend Method used	Insufficient or no data available
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
	c) Confidence interval

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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
- c) Unknown x
- d) Method

6.16 Change and reason for change in population size

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)?
- 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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure Ranking

No information on pressures (Xp)

Threat Ranking

Change of habitat location, size, and / or quality due to climate change (N05)

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

No

b) Indicate the status of measures

9.2 Main purpose of the measures taken

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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 Unknown

b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)
Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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

b) Minimum

c) Maximum

d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used

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12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Continental (CON)

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22–41.

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235–240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area

26500

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

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ii, iv alid v species (Alii	iek bj	
5.6 Long-term trend Period		
5.7 Long-term trend Direction		
5.8 Long-term trend Magnitude	a) Minimum b) Maximum	
5.9 Long-term trend Method used		
5.10 Favourable reference range	a) Area (km²)	
	b) Operator	
	c) Unknown x d) Method	
E 11 Change and reason for shange	u) Wethou	
5.11 Change and reason for change in surface area of range		
	The change is mainly due to:	
5 40 4 1 199 11 6 11		
5.12 Additional information		
6. Population		
6.1 Year or period	2007-2018	
·		
6.2 Population size (in reporting unit)	a) Unit number of map 1x1 km grid	cells (grids1x1)
	b) Minimum	
	c) Maximum	
	d) Best single value 296	
6.3 Type of estimate	Minimum	
6.4 Additional population size (using	a) Unit	
population unit other than reporting	b) Minimum	
unit)	c) Maximum	
	d) Best single value	
6.5 Type of estimate		
6.6 Population size Method used	Based mainly on expert opinion with very limited of	data
6.7 Short-term trend Period	2007-2018	
6.8 Short-term trend Direction	Unknown (x)	
6.9 Short-term trend Magnitude	a) Minimum	
	b) Maximum	
	c) Confidence interval	
6.10 Short-term trend Method used	Insufficient or no data available	
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	
	of commence merval	

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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
- c) Unknown x
- d) Method

6.16 Change and reason for change in population size

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)?
- 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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure Ranking

No information on pressures (Xp)

Threat Ranking

Change of habitat location, size, and / or quality due to climate change (N05)

M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures

9.2 Main purpose of the measures taken

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No

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 Unknown

b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)
Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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

b) Minimum

c) Maximum

d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used

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12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Alpine (ALP)

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22–41.

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235–240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area

11800

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

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ii, it did t species (Aiii	ich b _j	
5.6 Long-term trend Period		
5.7 Long-term trend Direction		
5.8 Long-term trend Magnitude	a) Minimum	b) Maximum
5.9 Long-term trend Method used		
5.10 Favourable reference range	a) Area (km²)	
	b) Operator	Approximately equal to (≈)
	c) Unknown d) Method	
5.11 Change and reason for change	a) Method	
in surface area of range		
	The change is mainly	y due to:
5.12 Additional information		
6. Population		
o. Population		
6.1 Year or period	2007-2018	
6.2 Population size (in reporting unit)	a) Unit	number of map 1x1 km grid cells (grids1x1)
	b) Minimum	
	c) Maximum	
	d) Best single value	136
6.3 Type of estimate	Minimum	
6.4 Additional population size (using	a) Unit	
population unit other than reporting	b) Minimum	
unit)	c) Maximum	
	d) Best single value	
6.5 Type of estimate	a, best single value	
6.6 Population size Method used	Rased mainly on eyn	ert opinion with very limited data
6.7 Short-term trend Period		reit opinion with very innited data
	2007-2018	
6.8 Short-term trend Direction	Unknown (x)	
6.9 Short-term trend Magnitude	a) Minimum	
	b) Maximum	
	c) Confidence interva	
6.10 Short-term trend Method used	Insufficient or no da	ta available
6.11 Long-term trend Period		
6.12 Long-term trend Direction		
6.13 Long-term trend Magnitude	a) Minimum	
	b) Maximum c) Confidence interva	
	c) confidence interve	ai e

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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
- c) Unknown x
- d) Method
- 6.16 Change and reason for change in population size

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
- Based mainly on expert opinion with very limited data
- 7.3 Short-term trend Period
- 2007-2018
- 7.4 Short-term trend Direction
- Stable (0)
- 7.5 Short-term trend Method used
- Based mainly on expert opinion with very limited data
- 7.6 Long-term trend Period
- 7.7 Long-term trend Direction
- 7.8 Long-term trend Method used
- 7.9 Additional information

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure Ranking

No information on pressures (Xp)

Threat Ranking

Change of habitat location, size, and / or quality due to

climate change (N05)

M

- 8.2 Sources of information
- 8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures

9.2 Main purpose of the measures taken

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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 Unknown

b) Population Unknown

c) Habitat of the species Good

10.2 Additional information

11. Conclusions

11.1. Range

Unknown (XX)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Favourable (FV)

11.4. Future prospects

Unknown (XX)

11.5 Overall assessment of

Unknown (XX)

Conservation Status

conservation status trend

- Componietion

11.6 Overall trend in Conservation Status

11.7 Change and reasons for change in conservation status and

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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

b) Minimum

c) Maximum

d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used

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12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State HR 1.2 Species code 1250 1.3 Species scientific name Podarcis siculus 1.4 Alternative species scientific name 1.5 Common name (in national language) primorska gušterica

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited 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?		
3.2 Which of the measures in Ar		

14 have been taken?

No

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Jelić, D., Kuljerić, M., Koren, T., Treer, D., Šalamon, D., Lončar, M., Podnar Lešić, M., Janev Hutinec, B., Bogdanović, T., Mekinić, S., Jelić, K., 2012. Crvena knjiga vodozemaca i gmazova Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Republika Hrvatska.

Lauš, B., 2015. Istraživanje populacija četveroprugog kravosasa (Elaphe quatuorlineata) i crvenkrpice (Zamenis situla) na Natura 2000 području Ravni kotari (kod: HR2001361) (završni izvještaj). Hrvatsko herpetološko društvo – Hyla, Zagreb.

Lauš, B., Jelić, D., Burić, I., Kolarić, A., Koren, T., 2013. Distribution and Conservation of Batrachofauna and Herpetofauna of the Zrmanja River catchment area. HYLA: Herpetological bulletin 2012, 3–17.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area

19300

5.2 Short-term trend Period

2007-2018

5.3 Short-term trend Direction

Stable (0)

5.4 Short-term trend Magnitude

a) Minimum

b) Maximum

5.5 Short-term trend Method used

Based mainly on expert opinion with very limited data

5.6 Long-term trend Period

5.7 Long-term trend Direction

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•	-	
5.8 Long-term trend Magnitude	a) Minimum	b) Maximum
5.9 Long-term trend Method used		
5.10 Favourable reference range	a) Area (km²)	
	b) Operator c) Unknown	x
	d) Method	^
5.11 Change and reason for change		
in surface area of range	The change is mainl	v due to:
	The change is main	, and to
5.12 Additional information		
6. Population		
6.1 Year or period	2007-2018	
6.2 Population size (in reporting unit)	a) Unit	number of map 1x1 km grid cells (grids1x1)
	b) Minimum	
	c) Maximum	
	d) Best single value	276
6.3 Type of estimate	Minimum	
6.4 Additional population size (using	a) Unit	
population unit other than reporting	b) Minimum	
unit)	c) Maximum	
	d) Best single value	
6.5 Type of estimate		
6.6 Population size Method used	Based mainly on exp	ert opinion with very limited data
6.7 Short-term trend Period	2007-2018	
6.8 Short-term trend Direction	Unknown (x)	
6.9 Short-term trend Magnitude	a) Minimum	
	b) Maximum	-1
6.10 Short-term trend Method used	c) Confidence intervention of the confidence intervention of t	
6.11 Long-term trend Period	msumcient of no da	ta available
6.12 Long-term trend Direction		
6.13 Long-term trend Magnitude	a) Minimum	
	b) Maximum	
	c) Confidence interv	al
6.14 Long-term trend Method used		
6.15 Favourable reference	a) Population size	

c) Unknown

6.4)

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d) Method

6.16 Change and reason for change in population size

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

Based mainly on expert opinion with very limited data

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	М
Invasive alien species of Union concern (I01)	M
Threat	Ranking
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M
Invasive alien species of Union concern (I01)	M

8.2 Sources of information

8.3 Additional information

IAS union concern: Herpestes javanicus É. Geoffroy Saint-Hilaire, 1818;

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

9.2 Main purpose of the measures taken

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- 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 Unknown
- b) Population Unknown
- c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

L1.1. Range	Unknown (XX)
-------------	--------------

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)
Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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

- b) Minimum
- c) Maximum
- d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used

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12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information

1.1 Member State	HR
1.2 Species code	5037
1.3 Species scientific name	Lacerta vivipara pannonica
1.4 Alternative species scientific name	
1.5 Common name (in national language)	panonska živorodna gušterica

2. Maps

2.1 Sensitive species	Yes
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	No

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

3.1 Is the species taken in t	he
wild/exploited?	

3.2 Which of the measures in Art.14 have been taken?

No

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

5.9 Long-term trend Method used5.10 Favourable reference range

4.2 Sources of information

Continental (CON)

Jelić, D., Bogdanović, T., 2011. Preliminary data on existence of Zootoca vivipara ssp. pannonica (Lac & Kluch, 1968) in Croatia. Hyla: Herpetological bulletin 2011, 77–79.

Jelić, D., Kuljerić, M., Koren, T., Treer, D., Šalamon, D., Lončar, M., Podnar Lešić, M., Janev Hutinec, B., Bogdanović, T., Mekinić, S., Jelić, K., 2012. Crvena knjiga vodozemaca i gmazova Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Republika Hrvatska.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area 300 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

a) Area (km²)

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Х

b) Operator

c) Unknown

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period 2007-2018

6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 11

6.3 Type of estimate Minimum

6.4 Additional population size (using a) Unit population unit other than reporting b) Minimum unit)

c) Maximum

d) Best single value

6.5 Type of estimate

6.6 Population size Method used Based mainly on expert opinion with very limited data

6.7 Short-term trend Period 2007-2018

6.8 Short-term trend Direction Unknown (x)

6.9 Short-term trend Magnitude a) Minimum b) Maximum

c) Confidence interval

6.10 Short-term trend Method used Insufficient or no data available

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

c) Unknown Χ

d) Method

6.16 Change and reason for change in population size

The change is mainly due to:

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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)?

habitat of suitable quality (for long-term

b) Is there a sufficiently large area of unoccupied

Unknown

quality of

Insufficient or no data available

7.2 Sufficiency of area and quality of occupied habitat Method used

2007-2018

survival)?

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

7.3 Short-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Conversion into agricultural land (excluding drainage and burning) (A01)	М
Drainage (K02)	M
Clear-cutting, removal of all trees (B09)	M
Threat	Ranking
Conversion into agricultural land (excluding drainage and burning) (A01)	М
Drainage (K02)	M
Clear-cutting, removal of all trees (B09)	М
Change of habitat location, size, and / or quality due to climate change (N05)	М

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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- 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
- Unknown
- b) Population
- Unknown
- c) Habitat of the species
- Unknown

10.2 Additional information

11. Conclusions

11.1. Range

Unknown (XX)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Unknown (XX)

11.4. Future prospects

Unknown (XX)

11.5 Overall assessment of

Unknown (XX)

Conservation Status

11.6 Overall trend in Conservation

Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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
- b) Minimum
- c) Maximum
- d) Best single value

12.2 Type of estimate

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12.3 Population size inside the network Method used

12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

Although the population from the Spačva basin, reported here, was attributed to the subspecies Zootoca vivipara pannonica, this was done purely based on the geographic/habitat/climate characteristics, along with the assumed mode of reproduction, which turned out to be incorrect. Since no morphometric and/or genetic comparison was ever published, maybe even not carried out, it is inapropriate to assign this population's subspecific status as Z. v. pannonica.

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1. General information 1.1 Member State 1.2 Species code 1.3 Species scientific name 1.4 Alternative species scientific name 1.5 Common name (in national language) blavor

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	Yes

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

No

3.1 Is the species taken in the wild/exploited?
3.2 Which of the measures in Art. 14 have been taken?

a) regulations regarding access to property
b) temporary or local prohibition of the taking of specimens in the wild and exploitation
c) regulation of the periods and/or methods of taking specimens
d) application of hunting and fishing rules which take

No

No

No

d) application of hunting and fishing rules which take account of the conservation of such populations
e) establishment of a system of licences for taking specimens or of quotas
f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens
g) breeding in captivity of animal species as well as

artificial propagation of plant species

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Cafuta, V., 2004a. Skupina za dvoživke in plazilce, in: Ekosistemi Dalmacije - Brač 2003 in Korčula 2004. Društvo študentov biologije, Ljubljana, pp. 13–19. Cafuta, V., 2004b. Herpetološka skupina, in: Ekosistemi Dalmacije - Brač 2003 in Korčula 2004. Društvo študentov biologije, Ljubljana, pp. 44–49. Schweiger, M., 2008. Report on my trips to the Croatian island Krk, from May 11th till May 17th, and from July 3rd till July 12th 2008. VipersGarden - Amphibians and Reptiles of Europe and the Mediterranean. URL http://vipersgarden.at/reports/krk08.php (accessed 10.26.18). Tóth, T., Géczy, C., Sós, E., Molnár, Z., Halpern, B., 2009. Further data on the herpetofauna of Lošinj Island, Croatia. Herpetozoa 21, 192.

Tóth, T., Grillitsch, H., Farkas, B., Gál, J., Sušić, G., 2006. Herpetofaunal data from Cres Island, Croatia. Herpetozoa 19, 27–58.

Vamberger, M., 2012. Poročilo skupine za dvoživke in plazilce, in: Ekosistemi Jadrana, Pag 2007. Društvo študentov biologije, Ljubljana, pp. 10–17. M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area 18800

5.2 Short-term trend Period 2007-2018

5.3 Short-term trend Direction5.4 Short-term trend Magnitude

a) Minimum

Stable (0)

b) Maximum

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, aa t species (
5.5 Short-term trend Method used	Based mainly on expert opinion with very limited data
5.6 Long-term trend Period	
5.7 Long-term trend Direction	
5.8 Long-term trend Magnitude	a) Minimum b) Maximum
5.9 Long-term trend Method used	
5.10 Favourable reference range	a) Area (km²)
	b) Operator
	c) Unknown x d) Method
5.11 Change and reason for change	
in surface area of range	
	The change is mainly due to:
5.12 Additional information	The actual range is greater than that reported here, but there are no records
	(published or otherwise) for some parts of Croatia, even though the species is (most certainly) present there.
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6. Population	
6.1 Year or period	2007-2018
one roan or porton	
6.2 Population size (in reporting unit)	a) Unit number of map 1x1 km grid cells (grids1x1)
	b) Minimum
	c) Maximum
	d) Best single value 298
6.3 Type of estimate	Minimum
6.4 Additional population size (using	a) Unit
population unit other than reporting	b) Minimum
unit)	c) Maximum
	d) Best single value
6.5 Type of estimate	
6.6 Population size Method used	Based mainly on expert opinion with very limited data
6.7 Short-term trend Period	2007-2018
6.8 Short-term trend Direction	Unknown (x)
6.9 Short-term trend Magnitude	a) Minimum
	b) Maximum
	c) Confidence interval
6.10 Short-term trend Method used	Insufficient or no data available
6.11 Long-term trend Period	
6.12 Long-term trend Direction	
6.13 Long-term trend Magnitude	a) Minimum
	b) Maximum

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c) Confidence interval

х

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

c) Unknown

d) Method

6.16 Change and reason for change in population size

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

Based mainly on expert opinion with very limited data

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Invasive alien species of Union concern (I01)	M
Threat	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M

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Invasive alien species of Union concern	(I01) M		
8.2 Sources of information			
8.3 Additional information	IAS union concern: Herpe	estes javanio	cus É. Geoffroy Saint-Hilaire, 1818
9. Conservation measures			
9.1 Status of measures	a) Are measures needed?	•	Yes
	b) Indicate the status of m	neasures l	Measures identified, but none yet taken
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	b) Population	Unknown Unknown Unknown	
10.2 Additional information			
11. Conclusions			
11.1. Range	Unknown (XX)		
11.2. Population	Unknown (XX)		
11.3. Habitat for the species	Unknown (XX)		
11.4. Future prospects	Unknown (XX)		
11.5 Overall assessment of Conservation Status	Unknown (XX)		
11.6 Overall trend in Conservation Status			
11.7 Change and reasons for change in conservation status and	a) Overall assessment of o	conservation	n status
conservation status trend	The change is mainly due	to:	
	b) Overall trend in conserv	vation statu	is

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The change is mainly due to:

11.8 Additional information

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

- 12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)
- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State HR 1.2 Species code 1283 1.3 Species scientific name Coronella austriaca 1.4 Alternative species scientific name 1.5 Common name (in national language) smukulja

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2009-2017
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited 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?
3.2 Which of the measures in Art

14 have been taken?

No

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) Uni

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Bonte, C., 2012. Affirmation of Coronella austriaca (Laurenti, 1768) on the island of Cres, Croatia. Herpetology Notes 5, 65–66.

Hill, J., 2008. Coronella austriaca (Laurenti, 1768) from the Croatian Island of Cres. Herpetozoa 20, 192.

Jelić, D., 2010. Record of Coronella austriaca LAURENTI, 1768 from the Island of Mljet, southern Croatia. Herpetozoa 23, 85–87.

Jelić, D., Vilaj, I., 2011. Remarks on Death feigning in Coronella austriaca (L a u r e n t i , 1768), Natrix natrix (L a u r e n t i , 1768) and Natrix tessellata (L a u r e n t i , 1768). Hyla: Herpetological bulletin 2011, 31–33.

Lauš, B., Burić, I., 2012. Colour abnormalities in Coronella austriaca (Laurenti, 1768) in Croatia. Hyla: Herpetological bulletin 2012, 43–44.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb

5. Range

5.1 Surface area

8300

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 Period5.7 Long-term trend Direction

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5.8 Long-term trend Magnitude 5.9 Long-term trend Method used	a) Minimum b) Maximum
5.10 Favourable reference range	a) Area (km²) b) Operator c) Unknown x d) Method
5.11 Change and reason for change in surface area of range	The change is mainly due to:
5.12 Additional information	The actual range is in reality much greater than reported here, but there are simply no records for many parts of Croatia.
6. Population	
6.1 Year or period	2007-2018
6.2 Population size (in reporting unit)	a) Unit number of map 1x1 km grid cells (grids1x1) b) Minimum c) Maximum d) Best single value 30
6.3 Type of estimate	Minimum
6.3 Type of estimate 6.4 Additional population size (using population unit other than reporting unit)	Minimum a) Unit b) Minimum c) Maximum d) Best single value
6.4 Additional population size (using population unit other than reporting	a) Unit b) Minimum c) Maximum
6.4 Additional population size (using population unit other than reporting unit)	a) Unit b) Minimum c) Maximum
6.4 Additional population size (using population unit other than reporting unit) 6.5 Type of estimate 6.6 Population size Method used 6.7 Short-term trend Period	a) Unit b) Minimum c) Maximum d) Best single value
6.4 Additional population size (using population unit other than reporting unit) 6.5 Type of estimate 6.6 Population size Method used	a) Unit b) Minimum c) Maximum d) Best single value Based mainly on expert opinion with very limited data
6.4 Additional population size (using population unit other than reporting unit) 6.5 Type of estimate 6.6 Population size Method used 6.7 Short-term trend Period	a) Unit b) Minimum c) Maximum d) Best single value Based mainly on expert opinion with very limited data 2007-2018
6.4 Additional population size (using population unit other than reporting unit) 6.5 Type of estimate 6.6 Population size Method used 6.7 Short-term trend Period 6.8 Short-term trend Direction	a) Unit b) Minimum c) Maximum d) Best single value Based mainly on expert opinion with very limited data 2007-2018 Unknown (x) a) Minimum b) Maximum
6.4 Additional population size (using population unit other than reporting unit) 6.5 Type of estimate 6.6 Population size Method used 6.7 Short-term trend Period 6.8 Short-term trend Direction 6.9 Short-term trend Magnitude 6.10 Short-term trend Method used 6.11 Long-term trend Period	a) Unit b) Minimum c) Maximum d) Best single value Based mainly on expert opinion with very limited data 2007-2018 Unknown (x) a) Minimum b) Maximum c) Confidence interval
6.4 Additional population size (using population unit other than reporting unit) 6.5 Type of estimate 6.6 Population size Method used 6.7 Short-term trend Period 6.8 Short-term trend Direction 6.9 Short-term trend Magnitude 6.10 Short-term trend Method used 6.11 Long-term trend Period 6.12 Long-term trend Direction	a) Unit b) Minimum c) Maximum d) Best single value Based mainly on expert opinion with very limited data 2007-2018 Unknown (x) a) Minimum b) Maximum c) Confidence interval Insufficient or no data available
6.4 Additional population size (using population unit other than reporting unit) 6.5 Type of estimate 6.6 Population size Method used 6.7 Short-term trend Period 6.8 Short-term trend Direction 6.9 Short-term trend Magnitude 6.10 Short-term trend Method used 6.11 Long-term trend Period	a) Unit b) Minimum c) Maximum d) Best single value Based mainly on expert opinion with very limited data 2007-2018 Unknown (x) a) Minimum b) Maximum c) Confidence interval

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- 6.15 Favourable reference population (using the unit in 6.2 or 6.4)
- a) Population size
- b) Operator
- c) Unknown x
- d) Method

6.16 Change and reason for change in population size

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)?

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M
Threat	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	М

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Roads, paths, railroads and related infrastructure (e.g. Mbridges, viaducts, tunnels) (E01)

Illegal shooting/killing (G10) M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

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 Unknown

b) Population Unknown
c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)

Conservation Status

Status

11.7 Change and reasons for change

11.6 Overall trend in Conservation

in conservation status and conservation status trend

The change is mainly due to:

b) Overall trend in conservation status

a) Overall assessment of conservation status

The change is mainly due to:

11.8 Additional information

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

- 12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)
- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

- 13.1 Justification of % thresholds for trends
- 13.2 Trans-boundary assessment
- 13.3 Other relevant Information

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4. Biogeographical and marine regions

- 4.1 Biogeographical or marine region where the species occurs
- 4.2 Sources of information

Alpine (ALP)

Bonte, C., 2012. Affirmation of Coronella austriaca (Laurenti, 1768) on the island of Cres, Croatia. Herpetology Notes 5, 65–66.

Hill, J., 2008. Coronella austriaca (Laurenti, 1768) from the Croatian Island of Cres. Herpetozoa 20, 192.

Jelić, D., 2010. Record of Coronella austriaca LAURENTI, 1768 from the Island of Mljet, southern Croatia. Herpetozoa 23, 85–87.

Jelić, D., Vilaj, I., 2011. Remarks on Death feigning in Coronella austriaca (L a u r e n t i , 1768), Natrix natrix (L a u r e n t i , 1768) and Natrix tessellata (L a u r e n t i , 1768). Hyla: Herpetological bulletin 2011, 31–33.

Lauš, B., Burić, I., 2012. Colour abnormalities in Coronella austriaca (Laurenti, 1768) in Croatia. Hyla: Herpetological bulletin 2012, 43–44.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta

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vodozemaca i gmazova Republike Hrvatske, Zagreb

5. Range			
5.1 Surface area	8500		
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		
5.9 Long-term trend Method used			
5.10 Favourable reference range	a) Area (km²)		
	b) Operator c) Unknown x		
	c) Unknown x d) Method		
5.11 Change and reason for change			
in surface area of range			
	The change is mainly due to:		
5.12 Additional information	The actual range is in reality much greater than reported here, but there are simply no records for many parts of Croatia.		
6. Population			
6.1 Year or period	2007-2018		
50D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
6.2 Population size (in reporting unit)	a) Unit number of map 1x1 km grid cells (grids1x1)		
	b) Minimum		
	c) Maximum d) Best single value 66		
6.3 Type of estimate	Minimum		
6.4 Additional population size (using	a) Unit		
population unit other than reporting unit)	b) Minimum		
unity	c) Maximum		
	d) Best single value		
6.5 Type of estimate			
6.6 Population size Method used	Based mainly on expert opinion with very limited data		
6.7 Short-term trend Period	2007-2018		
cool			

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Unknown (x)

6.8 Short-term trend Direction

ii, iv alid v species (Ali	ilex bj	
6.9 Short-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval	
6.10 Short-term trend Method used	Insufficient or no data available	
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	
C 4.4.1 and taken at 8.4.4 bad ward	c) Confidence interval	
6.14 Long-term trend Method used		
6.15 Favourable reference	a) Population size	
population (using the unit in 6.2 or 6.4)	b) Operator c) Unknown x	
J. 17	d) Method	
6.16 Change and reason for change	a, memou	
in population size	The change is mainly due to:	
	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)?	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	Based mainly on expert opinion with very limited	data
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		
8. Main pressures and thre	eats	
8.1 Characterisation of pressures/thre	ats	
Pressure	Ranking	
at a last to the state of	to the same	

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M

Natural succession resulting in species composition change

(other than by direct changes of agricultural or forestry

practices) (LO2)

Roads, paths, railroads and related infrastructure (e.g. Mbridges, viaducts, tunnels) (E01) Illegal shooting/killing (G10) M Threat Ranking Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (L02) Conversion into agricultural land (excluding drainage and burning) (A01) Roads, paths, railroads and related infrastructure (e.g. Mbridges, viaducts, tunnels) (E01) Illegal shooting/killing (G10) M	Conversion into agricultural land (excluding drainage and burning) (A01)	M
Threat Ranking Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (L02) Conversion into agricultural land (excluding drainage and burning) (A01) Roads, paths, railroads and related infrastructure (e.g. M bridges, viaducts, tunnels) (E01)		M
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (L02) Conversion into agricultural land (excluding drainage and burning) (A01) Roads, paths, railroads and related infrastructure (e.g. M bridges, viaducts, tunnels) (E01)	Illegal shooting/killing (G10)	M
(other than by direct changes of agricultural or forestry practices) (L02) Conversion into agricultural land (excluding drainage and burning) (A01) Roads, paths, railroads and related infrastructure (e.g. M bridges, viaducts, tunnels) (E01)	Threat	Ranking
burning) (A01) Roads, paths, railroads and related infrastructure (e.g. M bridges, viaducts, tunnels) (E01)	(other than by direct changes of agricultural or forestry	M
bridges, viaducts, tunnels) (E01)		M
Illegal shooting/killing (G10) M		M
<u> </u>	Illegal shooting/killing (G10)	M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

9.2 Main purpose of the measures

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 Unknown b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range	Unknown (XX)
11.2. Population	Unknown (XX)
11.3. Habitat for the species	Unknown (XX)
11.4. Future prospects	Unknown (XX)

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11.5 Overall assessment of Conservation Status

11.6 Overall trend in Conservation Status

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

Unknown (XX)

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

- 12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)
- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

- 13.1 Justification of % thresholds for trends
- 13.2 Trans-boundary assessment
- 13.3 Other relevant Information

4. Biogeographical and marine regions

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4.1 Biogeographical or marine region where the species occurs

Continental (CON)

4.2 Sources of information

Bonte, C., 2012. Affirmation of Coronella austriaca (Laurenti, 1768) on the island of Cres, Croatia. Herpetology Notes 5, 65–66.

Hill, J., 2008. Coronella austriaca (Laurenti, 1768) from the Croatian Island of Cres. Herpetozoa 20, 192.

Jelić, D., 2010. Record of Coronella austriaca LAURENTI, 1768 from the Island of Mljet, southern Croatia. Herpetozoa 23, 85–87.

Jelić, D., Vilaj, I., 2011. Remarks on Death feigning in Coronella austriaca (L a u r e n t i , 1768), Natrix natrix (L a u r e n t i , 1768) and Natrix tessellata (L a u r e n t i , 1768). Hyla: Herpetological bulletin 2011, 31–33.

Lauš, B., Burić, I., 2012. Colour abnormalities in Coronella austriaca (Laurenti, 1768) in Croatia. Hyla: Herpetological bulletin 2012, 43–44.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb

5. Range

5.1 Surface area

2007-2018

12000

5.2 Short-term trend Period

2007-2018

5.3 Short-term trend Direction

Unknown (x)
a) Minimum

b) Maximum

b) Maximum

5.4 Short-term trend Magnitude5.5 Short-term trend Method used

Insufficient or no data available

5.6 Long-term trend Period

5.0 Long-term trend Feriod

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Minimum

a) Area (km²)

b) Operator

c) Unknown

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

Х

5.12 Additional information

The actual range is in reality much greater than reported here, but there are simply no records for many parts of Croatia.

6. Population

6.1 Year or period

2007-2018

6.2 Population size (in reporting unit)

a) Unit

number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 73

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ii, iv and v species (Ani	iex bj	
6.3 Type of estimate	Minimum	
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	Based mainly on expert opinion with very limited of	data
6.7 Short-term trend Period	2007-2018	
6.8 Short-term trend Direction	Unknown (x)	
6.9 Short-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval	
6.10 Short-term trend Method used	Insufficient or no data available	
6.11 Long-term trend Period		
6.12 Long-term trend Direction		
6.13 Long-term trend Magnitude	a) Minimumb) Maximumc) 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 sizeb) Operatorc) Unknownd) Method	
6.16 Change and reason for change in population size	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)?	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 town trond Direction		

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7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M
Threat	Ranking
Threat Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	Ranking M
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry	
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2) Conversion into agricultural land (excluding drainage and	M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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

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10.1 Future prospects of parameters

a) Range Unknown

b) Population Unknown
c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)
Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

12.1 Population size inside the pSCls, SCls and SACs network (on the biogeographical/marine level including all sites where the species is present)

a) Unit

- b) Minimum
- c) Maximum
- d) Best single value

12.2 Type of estimate

12.3 Population size inside the network Method used

12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

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13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State HR 1.2 Species code 6138 1.3 Species scientific name Dolichophis caspius 1.4 Alternative species scientific name

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2009-2017
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	No

žuta poljarica

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

No

3.1 Is the species taken in the wild/exploited?
3.2 Which of the measures in Art. 14 have been taken?

1.5 Common name (in national language)

a) regulations regarding access to property No b) temporary or local prohibition of the taking of No specimens in the wild and exploitation c) regulation of the periods and/or methods of taking No specimens d) application of hunting and fishing rules which take No account of the conservation of such populations e) establishment of a system of licences for taking No specimens or of quotas f) regulation of the purchase, sale, offering for sale, No keeping for sale or transport for sale of specimens g) breeding in captivity of animal species as well as No artificial propagation of plant species 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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Jelić, D., Kuljerić, M., Koren, T., Treer, D., Šalamon, D., Lončar, M., Podnar Lešić, M., Janev Hutinec, B., Bogdanović, T., Mekinić, S., Jelić, K., 2012. Crvena knjiga vodozemaca i gmazova Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Republika Hrvatska.

Kreiner, G., 2007. The Snakes of Europe: all species from west of the Caucasus Mountains. Edition Chimaira, Frankfurt am Main.

Mahtani-Williams, S., Halpern, B., Vörös, J., Lauš, B., Babocsay, G., Vági, B., László Péntek, A., Nagy, Z.T., Burger, P.A., 2017. Phylogeography and adaptive evolution of the Caspian whipsnake (Dolichophis caspius).

Vervust, B., Grbac, I., Brecko, J., Tvrtković, N., Van Damme, R., 2009. Distribution of reptiles and amphibians in the nature park Lastovo Archipelago: possible underlying biotic and abiotic causes. Natura Croatica: Periodicum Musei Historiae Naturalis Croatici 18, 113–127

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb

5. Range

5.1 Surface area

22

5.2 Short-term trend Period

2009-2017

5.3 Short-term trend Direction

Unknown (x)
a) Minimum

5.4 Short-term trend Magnitude

b) Maximum

5.5 Short-term trend Method used

Insufficient or no data available

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ii, iv aliu v species (Alii	iex bj
5.6 Long-term trend Period	
5.7 Long-term trend Direction	
5.8 Long-term trend Magnitude	a) Minimum b) Maximum
5.9 Long-term trend Method used	
5.10 Favourable reference range	a) Area (km²)
	b) Operator
	c) Unknown x d) Method
5.11 Change and reason for change	
in surface area of range	The change is mainly due to:
	The change is mainly add to.
5.12 Additional information	This species is probably present all across Lastovo and Olib, but records exist for only a few parts of the islands. Therefore, the total range is probably higher.
	1×1 km quadrants were used because the current known range encompasses a very small area, within the same 10×10 km quadrant.
6. Population	
6.1 Year or period	2009-2017
6.2 Population size (in reporting unit)	a) Unit number of map 1x1 km grid cells (grids1x1)
	b) Minimum
	c) Maximum
	d) Best single value 22
6.3 Type of estimate	Minimum
6.4 Additional population size (using	a) Unit
population unit other than reporting	b) Minimum
unit)	c) Maximum
	d) Best single value
6.5 Type of estimate	
6.6 Population size Method used	Based mainly on expert opinion with very limited data
6.7 Short-term trend Period	2009-2017
6.8 Short-term trend Direction	Unknown (x)
6.9 Short-term trend Magnitude	a) Minimum
	b) Maximum
	c) Confidence interval
6.10 Short-term trend Method used	Insufficient or no data available

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6.11 Long-term trend Period
6.12 Long-term trend Direction

- 6.13 Long-term trend Magnitude
- a) Minimun
- 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
- c) Unknown
- d) Method
- 6.16 Change and reason for change in population size

The change is mainly due to:

6.17 Additional information

This species is probably present all across Lastovo and Olib, but records exist for only a few parts of the islands. Therefore, the total population size is probably higher.

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
- 2009-2017
- 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

Succession is problematic in some parts, while excessive removal of vegetation is a problem in others.

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (L05)	Н
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	M
Change of habitat location, size, and / or quality due to climate change (N05)	M

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Threat	Ranking
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (L05)	Н
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	M
Change of habitat location, size, and / or quality due to climate change (N05)	M

8.2 Sources of information

Jelić et al. (2012), Mahtani-Williams et al. (2017)

8.3 Additional information

9. Conservation measures

9.1 Status of measures

- a) Are measures needed?
- Yes

- b) Indicate the status of measures
- Measures identified, but none yet taken

9.2 Main purpose of the measures

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

Range Poor

b) Population Poor

c) Habitat of the species Poor

10.2 Additional information

11. Conclusions

Conservation Status

11.1. Range	Unknown (XX)
11.1. Kange	Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unfavourable - Inadequate (U1)

11.5 Overall assessment of Unfavourable - Inadequate (U1)

11.6 Overall trend in Conservation

Status

a) Overall assessment of conservation status

Unknown (x)

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

The change is mainly due to:

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b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

- 12.1 Population size inside the pSCls, SCls and SACs network (on the biogeographical/marine level including all sites where the species is present)
- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

Continental (CON)

4.2 Sources of information

Jelić, D., Kuljerić, M., Koren, T., Treer, D., Šalamon, D., Lončar, M., Podnar Lešić, M., Janev Hutinec, B., Bogdanović, T., Mekinić, S., Jelić, K., 2012. Crvena knjiga vodozemaca i gmazova Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Republika Hrvatska.

Kreiner, G., 2007. The Snakes of Europe: all species from west of the Caucasus Mountains. Edition Chimaira, Frankfurt am Main.

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Mahtani-Williams, S., Halpern, B., Vörös, J., Lauš, B., Babocsay, G., Vági, B., László Péntek, A., Nagy, Z.T., Burger, P.A., 2017. Phylogeography and adaptive evolution of the Caspian whipsnake (Dolichophis caspius).

Vervust, B., Grbac, I., Brecko, J., Tvrtković, N., Van Damme, R., 2009. Distribution of reptiles and amphibians in the nature park Lastovo Archipelago: possible underlying biotic and abiotic causes. Natura Croatica: Periodicum Musei Historiae Naturalis Croatici 18, 113–127

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb

5. Range

5.1 Surface area

5.2 Short-term trend Period 2009-2017

5.3 Short-term trend Direction Unknown (x)

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

3

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

5.9 Long-term trend Method used

5.10 Favourable reference range

a, wiiiiiiiiiaiii

b) Maximum

a) Area (km²)

b) Operator

c) Unknown x

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

1×1 km quadrants were used because the current known range encompasses a very small area, within the same 10×10 km quadrant.

6. Population

6.1 Year or period 2009-2017

6.2 Population size (in reporting unit)

a) Unit

number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 3

6.3 Type of estimate

Minimum

6.4 Additional population size (using population unit other than reporting unit)

a) Unit

b) Minimum

c) Maximum

d) Best single value

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ii, iv aliu v species (Alii	iex bj	
6.5 Type of estimate		
6.6 Population size Method used	Based mainly on expert opinion with very limited o	lata
6.7 Short-term trend Period	2009-2017	
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 o	lata
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 sizeb) Operatorc) Unknownd) Method	
6.16 Change and reason for change		
in population size	The change is mainly due to:	
6.17 Additional information	It is possible some populations still exist along the Fruška Gora - there have been at least two unconf population may be larger than what is reported he	irmed sightings. Therefore the
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)?	No
	b) Is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)?	Unknown
7.2 Sufficiency of area and quality of occupied habitat Method used	Based mainly on expert opinion with very limited of	data
7.3 Short-term trend Period	2009-2017	
7.4 Short-term trend Direction	Decreasing (-)	
7.5 Short-term trend Method used	Based mainly on expert opinion with very limited of	data
7.6 Long-term trend Period		
7.7 Long-term trend Direction		
7.8 Long-term trend Method used		
7.9 Additional information	Succession and overgrowing are one of the main t population in the Continental biogeographic region	

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8. Main pressures and threats

8.1 Characterisation of pressures/threat	8.1	Characterisation	of pressures	/threats
--	-----	------------------	--------------	----------

Pressure	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	Н
Conversion into agricultural land (excluding drainage and burning) (A01)	Н
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	Н
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (L05)	M
Threat	Ranking
Threat Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	Ranking H
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry	
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (L02) Conversion into agricultural land (excluding drainage and	Н
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (L02) Conversion into agricultural land (excluding drainage and burning) (A01) Roads, paths, railroads and related infrastructure (e.g.	Н

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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 Unknown

b) Population Bad c) Habitat of the species Bad

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10.2 Additional information

11. Conclusions

11.1. Range	1	1,	1.	Ra	nge
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11.2. Population

11.3. Habitat for the species

11.4. Future prospects

11.5 Overall assessment of Conservation Status

11.6 Overall trend in Conservation Status

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

Unknown (XX)

Unknown (XX)

Unfavourable - Bad (U2)

Unfavourable - Bad (U2)

Unfavourable - Bad (U2)

Deteriorating (-)

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

- 13.1 Justification of % thresholds for trends
- 13.2 Trans-boundary assessment
- 13.3 Other relevant Information

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2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited 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?
3.2 Which of the measures in Art

3.2 Which of the measures in Art.14 have been taken?

No

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Budinski, I., Kuljerić, M., Jelić, D., Čulina, A., 2008. Vodozemci i gmazovi Nacionalnog parka Mljet. Rasprostranjenost, ugroženost i mjere zaštite. Hrvatsko herpetološko društvo – Hyla, Zagreb.

Ćevid, J., 2015. Fragmentacija staništa i ugroženost zmija u Hrvatskoj (bachelor). University of Zagreb, Faculty of Science, Zagreb.

Galvagni, E., 1902. Beiträge zur Kenntniss der Fauna einiger dalmatinischer Inseln. Verhandlunden zoologisch-botanischen Gesellschaft in Wien 52, 362–388. Janev Hutinec, B., Lupret-Obradović, S., 2005. Zmije Hrvatske - priručnik za određivanje vrsta. Društvo za zaštitu i proučavanje vodozemaca i gmazova Hrvatske - Hyla, Kratis d.o.o., Zagreb.

Jelić, D., Budinski, I., Lauš, B., 2012. Distribution and conservation status of the batracho- and herpetofauna of the Croatian island of Mljet (Anura; Testudines; Squamata: Sauria, Serpentes). Herpetozoa 24, 165–178.

Jurinac, A.E., 1887. Prilog hrvatskoj fauni ogulinsko-slunjske okolice i pećina. Rad Jugoslavenske akademije znanosti i umjetnosti 8, 86–128.

Karaman, S., 1939. Über die Verbreitung der Reptilien in Jugoslavien. Annales Musei Serbiae Meridionalis, Skoplje 1, 1–20.

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Koren, T., Lauš, B., Burić, I., Kuljerić, M., 2011. Contribution to the herpetofauna (amphibians & reptiles) of the Kornati archipelago, Croatia. Natura Croatica 20, 387–396.

Lauš, B., 2015. Istraživanje populacija četveroprugog kravosasa (Elaphe quatuorlineata) i crvenkrpice (Zamenis situla) na Natura 2000 području Ravni

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kotari (kod: HR2001361) (završni izvještaj). Hrvatsko herpetološko društvo – Hyla, Zagreb.

Lauš, B., 2010. A contribution to the herpetofauna of Žirje Island (Dalmatia, Croatia). Natura Sloveniae 12, 61–63.

Lončar, M., 2005. Rasprostranjenost gmazova Hrvatske, Zbirka Hrvatskog prirodoslovnog muzeja (graduation thesis). Sveučilište u Zagrebu, Prirodoslovnomatematički fakultet, Zagreb.

Lukač, M., Horvatek Tomić, D., Mandac, Z., Mihoković, S., Prukner-Radovčić, E., 2017. Oral and cloacal aerobic bacterial and fungal flora of free-living four-lined snakes (Elaphe quatuorlineata) from Croatia. Veterinary Archives 87, 351–361. Madl, R., 2017. First record of Elaphe quatuorlineata (BONNATERRE, 1790), from the Island of Dugi Otok (Croatia). Herpetozoa 30, 96–100.

Mekinić, S., Nediljko, Ž., Boban, J., Piasevoli, G., Vladović, D., 2015. Snakes in herpetological collection of the Natural History Museum in Split (Croatia) collected from 1924 untill 2015. Hyla: Herpetological bulletin 2015, 4–10. Schweiger, M., 2005. Ile of walls - Herpetologische Beobachtungen auf der Kroatischen Insel Pag. 3. Teil: Echsen und Schlangen. ÖGH-Aktuell 16, 5–7. Werner, F., 1908. Die zoologische Reise des naturwissenschaftlichen Vereines nach Dalmatien im April 1906. A. Allgemeiner Teil. Bericht über den Verlauf der Reise. 3. Streifzüge der Ostpartie. Mitteilungen des Naturwissenschaftlichen Vereines an der Universität Wien 6, 12–18.

Werner, F., 1897. Die Reptilien und Amphibien Oesterreich - Ungarns und der Occupationslaender. Pichlers Witwe & Sohn, Wien.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area 23400 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

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude a) Minimum b) Maximum
5.9 Long-term trend Method used

5.10 Favourable reference range a) Area (km²) b) Operator

c) Unknown x

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

5.6 Long-term trend Period

There are several old literature records for this species on the island of Mljet. However, all of those reffer to a single collected specimen mentioned by Werner (1897). No new records after that exist. Since mongooses were introduced to the island at the beginning of the 20th century, it is possible this species became

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locally extinct. Therefore, we did not include the original record in the range and distribution.

6. Popula	tion
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6.1 Year or period 2007-2018

6.2 Population size (in reporting unit)

- a) Unit number of map 1x1 km grid cells (grids1x1)
- b) Minimum
- c) Maximum
- d) Best single value 215

6.3 Type of estimate

Minimum

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 Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2007-2018

6.8 Short-term trend Direction

Unknown (x)

6.9 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

6.11 Long-term trend Period

6.12 Long-term trend Direction

o.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
- c) Unknown
- d) Method

6.16 Change and reason for change in population size

The change is mainly due to:

6.17 Additional information

The record(s) from Mljet (see 5.12) was not included for the same reasons.

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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

Based mainly on expert opinion with very limited data

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Invasive alien species of Union concern (I01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Threat	Ranking
Invasive alien species of Union concern (I01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Conversion into agricultural land (excluding drainage and burning) (A01)	М
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Illegal shooting/killing (G10)	M

8.2 Sources of information

8.3 Additional information

IAS union concern: Herpestes javanicus É. Geoffroy Saint-Hilaire, 1818

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9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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

Unknown

b) Population

Unknown

c) Habitat of the species

Unknown

10.2 Additional information

11. Conclusions

11.1. Range

Unknown (XX)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Unknown (XX)

11.4. Future prospects

Unknown (XX)

Unknown (XX)

11.5 Overall assessment of **Conservation Status**

11.6 Overall trend in Conservation

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

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)

Unit number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 164

12.2 Type of estimate

12.3 Population size inside the network Method used

Minimum

Based mainly on expert opinion with very limited 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

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State 1.2 Species code 1.3 Species scientific name 1.4 Alternative species scientific name 1.5 Common name (in national language) **Sara poljarica**

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited 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?	
3.2 Which of the measures in Art. 14 have been taken?	

No

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Alpine (ALP)

Coz-Rakovac, R., Lisicic, D., Smuc, T., Popovic, N.T., Strunjak-Perovic, I., Jadan, M., Tadic, Z., Dujakovic, J.J., 2011. Classification Modeling of Physiological Stages in Captive Balkan Whip Snakes Using Blood Biochemistry Parameters. Journal of Herpetology 45, 525-529. https://doi.org/10.1670/10-234.1 Drašler, K., 2014. Poročilo o delu skupine za plazilce, in: Ekosistemi Jadrana 2011 - delta Neretve. Društvo študentov biologije, Ljubljana, pp. 35–41. Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57-104. https://doi.org/10.5937/bnhmb1710057D Jablonski, D., Szabolcs, M., Simović, A., Mizsei, E., 2017. Colour and pattern variation of the Balkan whip snake, Hierophis gemonensis (Laurenti, 1768). Turkish Journal of Zoology 41, 363–369. https://doi.org/10.3906/zoo-1606-15 Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19-40. Lauš, B., 2010. A contribution to the herpetofauna of Žirje Island (Dalmatia, Croatia). Natura Sloveniae 12, 61–63. Mekinić, S., Nediljko, Ž., Boban, J., Piasevoli, G., Vladović, D., 2015. Snakes in herpetological collection of the Natural History Museum in Split (Croatia) collected from 1924 untill 2015. Hyla: Herpetological bulletin 2015, 4–10. Tóth, T., Farkas, B., Géczy, C., Molnár, Z., 2009. Herpetofaunal data from Ilovik and neighboring islets (Cres-Lošinj Archipelago, Croatia). Herpetozoa 22, 82-87. Tóth, T., Heltai, M., Keszi, A., Sušić, G., Moharos, L., Farkas, B., Géczy, C., Torda,

O., Gál, J., 2017. Herpetofauna inventory of the small islands of the Cres-Lošinj

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Archipelago (North Adriatic Sea, Croatia) (Amphibia; Reptilia). Herpetozoa 30, 21-28.

Vamberger, M., 2012. Poročilo skupine za dvoživke in plazilce, in: Ekosistemi Jadrana, Pag 2007. Društvo študentov biologije, Ljubljana, pp. 10–17.

Vilaj, I., 2014. Doprinos poznavanju herpetofaune otoka Hvara, in: Barišić, M., Burić, I., Gazić, M., Sučić, I. (Eds.), Istraživanje bioraznolikosti otoka Hvara 2011. Udruga studenata biologije - BIUS, Zagreb, pp. 136–156.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area

2200

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

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Area (km²)

b) Operator

c) Unknown

Х

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period

2007-2018

a) Unit

number of map 1x1 km grid cells (grids1x1)

6.2 Population size (in reporting unit)

b) Minimum

c) Maximum

d) Best single value 9

6.3 Type of estimate

Minimum

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

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6.6 Population size Method used Based mainly on expert opinion with very limited data 6.7 Short-term trend Period 2007-2018 6.8 Short-term trend Direction Unknown (x) 6.9 Short-term trend Magnitude a) Minimum b) Maximum c) Confidence interval 6.10 Short-term trend Method used Insufficient or no data available 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 a) Population size population (using the unit in 6.2 or b) Operator 6.4) c) Unknown Х d) Method 6.16 Change and reason for change in population size The change is mainly due to: 6.17 Additional information 7. Habitat for the species 7.1 Sufficiency of area and quality of a) Are area and quality of occupied habitat Yes occupied habitat sufficient (for long-term survival)? 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 Based mainly on expert opinion with very limited data occupied habitat Method used 7.3 Short-term trend Period 2007-2018

7.4 Short-term trend Direction

7.5 Short-term trend Method used

7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure Ranking

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Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	М
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M
Threat	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Illegal shooting/killing (G10)	M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

No

- b) Indicate the status of measures
- 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 Unknown b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range	Unknown (XX)
11.2. Population	Unknown (XX)
11.3. Habitat for the species	Unknown (XX)
11.4. Future prospects	Unknown (XX)
11.5 Overall assessment of	Unknown (XX)

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11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

Mediterranean (MED)

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Croatia). Natura Sloveniae 12, 61–63.

4.2 Sources of information

M., Tadic, Z., Dujakovic, J.J., 2011. Classification Modeling of Physiological Stages in Captive Balkan Whip Snakes Using Blood Biochemistry Parameters. Journal of Herpetology 45, 525-529. https://doi.org/10.1670/10-234.1 Drašler, K., 2014. Poročilo o delu skupine za plazilce, in: Ekosistemi Jadrana 2011 - delta Neretve. Društvo študentov biologije, Ljubljana, pp. 35–41. Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57-104. https://doi.org/10.5937/bnhmb1710057D Jablonski, D., Szabolcs, M., Simović, A., Mizsei, E., 2017. Colour and pattern variation of the Balkan whip snake, Hierophis gemonensis (Laurenti, 1768). Turkish Journal of Zoology 41, 363-369. https://doi.org/10.3906/zoo-1606-15 Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19-40. Lauš, B., 2010. A contribution to the herpetofauna of Žirje Island (Dalmatia,

Coz-Rakovac, R., Lisicic, D., Smuc, T., Popovic, N.T., Strunjak-Perovic, I., Jadan,

Mekinić, S., Nediljko, Ž., Boban, J., Piasevoli, G., Vladović, D., 2015. Snakes in herpetological collection of the Natural History Museum in Split (Croatia) collected from 1924 untill 2015. Hyla: Herpetological bulletin 2015, 4–10. Tóth, T., Farkas, B., Géczy, C., Molnár, Z., 2009. Herpetofaunal data from Ilovik and neighboring islets (Cres-Lošinj Archipelago, Croatia). Herpetozoa 22, 82–87. Tóth, T., Heltai, M., Keszi, A., Sušić, G., Moharos, L., Farkas, B., Géczy, C., Torda, O., Gál, J., 2017. Herpetofauna inventory of the small islands of the Cres–Lošinj Archipelago (North Adriatic Sea, Croatia) (Amphibia; Reptilia). Herpetozoa 30, 21–28.

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5. Range

5.1 Surface area	25600	
5.2 Short-term trend Period	2007-2018	
5.3 Short-term trend Direction	Stable (0)	
5.4 Short-term trend Magnitude	a) Minimum	b) Maximum
5.5 Short-term trend Method used	Based mainly on	expert opinion with very limited data
5.6 Long-term trend Period		
5.7 Long-term trend Direction		
5.8 Long-term trend Magnitude	a) Minimum	b) Maximum
5.9 Long-term trend Method used		
5.10 Favourable reference range	a) Area (km²)	
	b) Operator	More than (>)
	c) Unknown	

d) Method

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5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

The actual range is to an extent greater than that reported here, but there are no records (published or otherwise) for some parts of Croatia, even though the species is (most certainly) present there.

6. Population

2007-2018 6.1 Year or period

6.2 Population size (in reporting unit)

- a) Unit number of map 1x1 km grid cells (grids1x1)
- b) Minimum
- c) Maximum
- d) Best single value 303

6.3 Type of estimate

Minimum

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

Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2007-2018

6.8 Short-term trend Direction

Unknown (x)

6.9 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

- 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
- c) Unknown Х
- d) Method

6.16 Change and reason for change in population size

The change is mainly due to:

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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)?

Based mainly on expert opinion with very limited data

7.2 Sufficiency of area and quality of occupied habitat Method used

7.3 Short-term trend Period

7.4 Short-term trend Direction

7.5 Short-term trend Method used

7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

2007-2018

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M
Invasive alien species of Union concern (I01)	M
Threat	Ranking
Threat Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	Ranking M
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open	
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05) Roads, paths, railroads and related infrastructure (e.g.	M

8.2 Sources of information

8.3 Additional information

IAS union concern: Herpestes javanicus É. Geoffroy Saint-Hilaire, 1818

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9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

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 Unknown b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information Future prospects are probably not that grim for this species, but we do not have

sufficient data to reliably state this.

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)
Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

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)
- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Uni
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

- 13.1 Justification of % thresholds for trends
- 13.2 Trans-boundary assessment
- 13.3 Other relevant Information

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1. General information 1.1 Member State 1.2 Species code 1.3 Species scientific name 1.4 Alternative species scientific name 1.5 Common name (in national language) crna poljarica

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited 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?	
3.2 Which of the measures in Art. 14 have been taken?	

No

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) Uni

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Alpine (ALP)

Godez, A., 1898. Beobachtungen über den Vogelzug auf der Insel Pelagosa im Adriatischen Meere. Die Schwalbe - Berichte des Comités für Ornithologische Beobachtungs-Stationen in Österreich - Neue Folge 1, 115–127.

Horvatić, B., 2008. Knjiga "Zmije Hrvatske" - ERRATA CORRIGE. Zagreb. Janev Hutinec, B., Lupret-Obradović, S., 2005. Zmije Hrvatske - priručnik za određivanje vrsta. Društvo za zaštitu i proučavanje vodozemaca i gmazova Hrvatske - Hyla, Kratis d.o.o., Zagreb.

Tóth, T., Heltai, M., Keszi, A., Sušić, G., Moharos, L., Farkas, B., Géczy, C., Torda, O., Gál, J., 2017. Herpetofauna inventory of the small islands of the Cres-Lošinj Archipelago (North Adriatic Sea, Croatia) (Amphibia; Reptilia). Herpetozoa 30, 21–28.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area

2000

5.2 Short-term trend Period

2007-2018

5.3 Short-term trend Direction

Uncertain (u)

5.4 Short-term trend Magnitude

a) Minimum

b) Maximum

5.5 Short-term trend Method used

Based mainly on expert opinion with very limited data

5.6 Long-term trend Period5.7 Long-term trend Direction

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5.8 Long-term trend Magnitude a) Minimum b) Maximum 5.9 Long-term trend Method used 5.10 Favourable reference range a) Area (km²) b) Operator Approximately equal to (≈) c) Unknown d) Method 5.11 Change and reason for change in surface area of range The change is mainly due to: 5.12 Additional information 6. Population 6.1 Year or period 2007-2018 6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1) b) Minimum c) Maximum d) Best single value 12 6.3 Type of estimate Minimum 6.4 Additional population size (using a) Unit population unit other than reporting b) Minimum unit) c) Maximum d) Best single value 6.5 Type of estimate 6.6 Population size Method used Based mainly on expert opinion with very limited data 6.7 Short-term trend Period 2007-2018 6.8 Short-term trend Direction Unknown (x) 6.9 Short-term trend Magnitude a) Minimum b) Maximum c) Confidence interval 6.10 Short-term trend Method used Insufficient or no data available 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 a) Population size population (using the unit in 6.2 or b) Operator

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c) Unknown

6.4)

d) Method

6.16 Change and reason for change in population size

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

Based mainly on expert opinion with very limited data

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M
Threat	Ranking
Threat Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open	

8.2 Sources of information

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 identified, but none yet taken

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

Unknown

c) Habitat of the species

Unknown

10.2 Additional information

11. Conclusions

11.1. Range

Favourable (FV)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Unknown (XX)

11.4. Future prospects

Unknown (XX)

11.5 Overall assessment of

Unknown (XX)

Conservation Status

11.6 Overall trend in Conservation

Status

11.7 Change and reasons for change

in conservation status and conservation status trend

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

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 pSCls, SCls and SACs network (on the biogeographical/marine level including all sites where the species is present)
- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

- 13.1 Justification of % thresholds for trends
- 13.2 Trans-boundary assessment
- 13.3 Other relevant Information

4. Biogeographical and marine regions

- 4.1 Biogeographical or marine region where the species occurs
- 4.2 Sources of information

Mediterranean (MED)

Godez, A., 1898. Beobachtungen über den Vogelzug auf der Insel Pelagosa im Adriatischen Meere. Die Schwalbe - Berichte des Comités für Ornithologische Beobachtungs-Stationen in Österreich - Neue Folge 1, 115–127.

Horvatić, B., 2008. Knjiga "Zmije Hrvatske" - ERRATA CORRIGE. Zagreb. Janev Hutinec, B., Lupret-Obradović, S., 2005. Zmije Hrvatske - priručnik za određivanje vrsta. Društvo za zaštitu i proučavanje vodozemaca i gmazova Hrvatske - Hyla, Kratis d.o.o., Zagreb.

Tóth, T., Heltai, M., Keszi, A., Sušić, G., Moharos, L., Farkas, B., Géczy, C., Torda, O., Gál, J., 2017. Herpetofauna inventory of the small islands of the Cres-Lošinj Archipelago (North Adriatic Sea, Croatia) (Amphibia; Reptilia). Herpetozoa 30, 21–28.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

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5.1 Surface area	8900	
5.2 Short-term trend Period	2007-2018	
5.3 Short-term trend Direction	Stable (0)	
5.4 Short-term trend Magnitude	a) Minimum	b) Maximum
5.5 Short-term trend Method used	Based mainly on exp	pert opinion with very limited data
5.6 Long-term trend Period		
5.7 Long-term trend Direction		
5.8 Long-term trend Magnitude	a) Minimum	b) Maximum
5.9 Long-term trend Method used		
5.10 Favourable reference range	a) Area (km²)	
	b) Operator	Approximately equal to (≈)
	c) Unknown d) Method	
5.11 Change and reason for change		
in surface area of range	The change is mainly	v due to:
	The change is main	, 440 (6)
5.12 Additional information		
6. Population		
6.1 Year or period	2007-2018	
6.2 Population size (in reporting unit)	a) Unit	number of map 1x1 km grid cells (grids1x1)
	b) Minimum	
	c) Maximum	
	d) Best single value	76
6.3 Type of estimate	Minimum	
6.4 Additional population size (using	a) Unit	
population unit other than reporting	b) Minimum	
unit)	c) Maximum	
	d) Best single value	

6.5 Type of estimate
6.6 Population size Method used
6.7 Short-term trend Period
6.8 Short-term trend Direction
C.9 Short-term trend Magnitude
Direction

a) Minimum
b) Maximum
c) Confidence interval

6.10 Short-term trend Method used Insufficient or no data available

6.11 Long-term trend Period
6.12 Long-term trend Direction

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- 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
- c) Unknown
- d) Method

6.16 Change and reason for change in population size

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

Based mainly on expert opinion with very limited data

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	М
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Illegal shooting/killing (G10)	M
Threat	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M

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Roads, paths, railroads and related infrastructure (e.g. Mbridges, viaducts, tunnels) (E01)

Illegal shooting/killing (G10) M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

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 Unknown

b) Population Unknown c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Favourable (FV)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)

Conservation Status

11.6 Overall trend in Conservation

Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

- 12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

12.2 Type of estimate

- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State 1.2 Species code 1.3 Species scientific name 1.4 Alternative species scientific name 1.5 Common name (in national language) ribarica

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited 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?
3.2 Which of the measures in Art 14 have been taken?

No

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Burić, I., Baškiera, S., 2014. New record of the Dice Snake (Natrix tessellata) from Cres island, Croatia. Hyla: Herpetological bulletin 2014, 18–19.

Dajčman, U., 2017. Poročilo o delu skupine za plazilce, in: Ekosistemi Balkana, Vransko jezero 2016. Društvo študentov biologije, Ljubljana, pp. 66–72.

Drašler, K., 2014. Poročilo o delu skupine za plazilce, in: Ekosistemi Jadrana 2011 - delta Neretve. Društvo študentov biologije, Ljubljana, pp. 35–41.

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22–41.

Jelić, D., Lauš, B., 2011. The Gull Larus cachinnans (Pallas, 1811) as Natural Predator of Natrix tessellata (Laurenti, 1768). Mertensiella 18, 451–452. Jelić, D., Lelo, S., 2011. Distribution and Status Quo of Natrix tessellata in Croatia, and Bosnia and Herzegovina. Mertensiella 18, 217–224.

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Vlček, P., Jablonski, D., Kudláček, M., Mebert, K., 2015. Rediscovery of the Dice Snake Natrix tessellata (LAURENTI, 1768), from the Island of Krk, Croatia. Herpetozoa 27, 191–196.

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5. Range

5.1 Surface area 100

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

5.10 Favourable reference range a) Area (km²)

b) Operator

c) Unknown x

d) Method

in surface area of range

The change is mainly due to:

5.12 Additional information

5.9 Long-term trend Method used

5.11 Change and reason for change

6. Population

6.1 Year or period 2007-2018

6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 92

6.3 Type of estimate Minimum

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 Based mainly on expert opinion with very limited data

6.7 Short-term trend Period 2007-2018

6.8 Short-term trend Direction Unknown (x)

6.9 Short-term trend Magnitude a) Minimum b) Maximum

c) Confidence interval

6.10 Short-term trend Method used Insufficient or no data available

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- 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
- c) Unknown
- d) Method

6.16 Change and reason for change in population size

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)?

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

200

7.4 Short-term trend Direction7.5 Short-term trend Method used

7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

2007-2018

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Physical alteration of water bodies (K05)	M
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M
Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)	M
Threat	Ranking
Physical alteration of water bodies (K05)	M

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Interspecific relations (competition, predation, parasitism, H pathogens) (L06)

Mixed source pollution to surface and ground waters (limnic H and terrestrial) (J01)

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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

Unknown

b) Population

Unknown

c) Habitat of the species

Unknown

10.2 Additional information

11. Conclusions

11.1. Range

Unknown (XX)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Unknown (XX)

11.4. Future prospects

Unknown (XX)

11.5 Overall assessment of

in conservation status and conservation status trend

Unknown (XX)

Conservation Status

11.6 Overall trend in Conservation Status

11.7 Change and reasons for change

The change is mainly due to:

b) Overall trend in conservation status

a) Overall assessment of conservation status

The change is mainly due to:

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11.8 Additional information

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

12.1 Population size inside the pSCls, SCls and SACs network (on the biogeographical/marine level including all sites where the species is present)

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Alpine (ALP)

Burić, I., Baškiera, S., 2014. New record of the Dice Snake (Natrix tessellata) from Cres island, Croatia. Hyla: Herpetological bulletin 2014, 18–19.

Dajčman, U., 2017. Poročilo o delu skupine za plazilce, in: Ekosistemi Balkana, Vransko jezero 2016. Društvo študentov biologije, Ljubljana, pp. 66–72.

Drašler, K., 2014. Poročilo o delu skupine za plazilce, in: Ekosistemi Jadrana 2011 - delta Neretve. Društvo študentov biologije, Ljubljana, pp. 35–41.

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of

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the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22–41.

Jelić, D., Lauš, B., 2011. The Gull Larus cachinnans (Pallas, 1811) as Natural Predator of Natrix tessellata (Laurenti, 1768). Mertensiella 18, 451–452. Jelić, D., Lelo, S., 2011. Distribution and Status Quo of Natrix tessellata in Croatia, and Bosnia and Herzegovina. Mertensiella 18, 217–224.

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Vlček, P., Jablonski, D., Kudláček, M., Mebert, K., 2015. Rediscovery of the Dice Snake Natrix tessellata (LAURENTI, 1768), from the Island of Krk, Croatia. Herpetozoa 27, 191–196.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area

6000

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

5.7 Long term trend Birection

5.8 Long-term trend Magnitude

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Minimum

b) Maximum

a) Area (km²)

b) Operator

c) Unknown

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

X

5.12 Additional information

6. Population

6.1 Year or period

2007-2018

6.2 Population size (in reporting unit)

a) Unit

number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 17

6.3 Type of estimate

Minimum

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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

Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2007-2018

6.8 Short-term trend Direction

Unknown (x)

6.9 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

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
- c) Unknown d) Method

Х

6.16 Change and reason for change in population size

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)?

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

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7.9 Additional information

8. Main pressures and threats	8.	. Main	pressures	and	threats
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8.1 Characterisation of pressures/threats

Pressure	Ranking
Physical alteration of water bodies (K05)	M
Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)	М
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M
Threat	Ranking
Physical alteration of water bodies (K05)	
Thysical diceration of water bodies (Ros)	M
Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)	M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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

Unknown

b) Population

Unknown

c) Habitat of the species

Unknown

10.2 Additional information

11. Conclusions

11.1. Range

Unknown (XX)

11.2. Population

Unknown (XX)

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11.3. Habitat for the species

11.4. Future prospects

11.5 Overall assessment of Conservation Status

11.6 Overall trend in Conservation Status

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

Unknown (XX)

Unknown (XX)

Unknown (XX)

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Continental (CON)

Burić, I., Baškiera, S., 2014. New record of the Dice Snake (Natrix tessellata) from Cres island, Croatia. Hyla: Herpetological bulletin 2014, 18–19.

Dajčman, U., 2017. Poročilo o delu skupine za plazilce, in: Ekosistemi Balkana, Vransko jezero 2016. Društvo študentov biologije, Ljubljana, pp. 66–72.

Drašler, K., 2014. Poročilo o delu skupine za plazilce, in: Ekosistemi Jadrana 2011 - delta Neretve. Društvo študentov biologije, Ljubljana, pp. 35–41.

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22–41.

Jelić, D., Lauš, B., 2011. The Gull Larus cachinnans (Pallas, 1811) as Natural Predator of Natrix tessellata (Laurenti, 1768). Mertensiella 18, 451–452. Jelić, D., Lelo, S., 2011. Distribution and Status Quo of Natrix tessellata in Croatia, and Bosnia and Herzegovina. Mertensiella 18, 217–224.

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Vlček, P., Jablonski, D., Kudláček, M., Mebert, K., 2015. Rediscovery of the Dice Snake Natrix tessellata (LAURENTI, 1768), from the Island of Krk, Croatia. Herpetozoa 27, 191–196.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area 28900 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

5.9 Long-term trend Method used

b) Operator c) Unknown x

c) Unknown x d) Method

a) Area (km²)

5.11 Change and reason for change in surface area of range

5.10 Favourable reference range

The change is mainly due to:

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5.12 Additional information

6.	P	0	D	u	la	ti	0	n
•	•	•	r	-		•	•	••

6.1 Year or period

6.2 Population size (in reporting unit) a) Unit number of map 1x1 km grid cells (grids1x1) b) Minimum

2007-2018

c) Maximum d) Best single value 176

6.3 Type of estimate Minimum

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 Based mainly on expert opinion with very limited data

6.7 Short-term trend Period 2007-2018

6.8 Short-term trend Direction Unknown (x)

6.9 Short-term trend Magnitude a) Minimum b) Maximum

c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

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

c) Unknown Х

d) Method

6.16 Change and reason for change in population size

The change is mainly due to:

6.17 Additional information

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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)?

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 Insufficient or no data available

2007-2018

Unknown (x)

Insufficient or no data available

occupied habitat Method used

7.3 Short-term trend Period

7.4 Short-term trend Direction

7.5 Short-term trend Method used

7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Physical alteration of water bodies (K05)	М
Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)	М
Interspecific relations (competition, predation, parasitism, pathogens) (L06)	M
Threat	Ranking
Threat Physical alteration of water bodies (K05)	Ranking M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

Unknown

9.2 Main purpose of the measures taken

9.3 Location of the measures taken

9.4 Response to the measures

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9.5 List of main conservation measures

9.6 Additional information

10. Future prospects

10.1 Future prospects of parameters

a) Range Unknown

b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)
Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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

b) Minimum

c) Maximum

d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction

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12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State HR 1.2 Species code 6092 1.3 Species scientific name Platyceps najadum 1.4 Alternative species scientific name

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited 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?
3.2 Which of the measures in Art 14 have been taken?

1.5 Common name (in national language) šilac

No

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) Uni

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D Horvatić, B., 2008. Knjiga "Zmije Hrvatske" - ERRATA CORRIGE. Zagreb. JU Rezervat Lokrum, 2019. Otok Lokrum [WWW Document]. Otok Lokrum. URL http://www.lokrum.hr/ (accessed 3.21.19).

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Mekinić, S., Nediljko, Ž., Boban, J., Piasevoli, G., Vladović, D., 2015. Snakes in herpetological collection of the Natural History Museum in Split (Croatia) collected from 1924 untill 2015. Hyla: Herpetological bulletin 2015, 4–10.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvansti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb.

5. Range

5.1 Surface area

10900

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

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ii, iv alia v species (Alii	iek bj
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
5.9 Long-term trend Method used	
5.10 Favourable reference range	a) Area (km²)
	b) Operator c) Unknown x
	d) Method
5.11 Change and reason for change	
in surface area of range	
	The change is mainly due to:
5.12 Additional information	
6. Population	
6.1 Year or period	2007-2018
o.1 rear or period	2007-2018
6.2 Population size (in reporting unit)	a) Unit number of map 1x1 km grid cells (grids1x1)
, , , , , ,	b) Minimum
	c) Maximum
	d) Best single value 54
6.3 Type of estimate	Minimum
6.4 Additional population size (using population unit other than reporting	a) Unit
unit)	b) Minimum
	c) Maximum
6.5 Type of estimate	d) Best single value
6.6 Population size Method used	Based mainly on expert opinion with very limited data
6.7 Short-term trend Period	2007-2018
6.8 Short-term trend Direction	Unknown (x)
6.9 Short-term trend Magnitude	a) Minimum b) Maximum
	c) Confidence interval
6.10 Short-term trend Method used	Insufficient or no data available
6.11 Long-term trend Period	
6.11 Long-term trend Period 6.12 Long-term trend Direction	Insufficient or no data available

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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
- c) Unknown x
- d) Method

6.16 Change and reason for change in population size

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)?

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M
Invasive alien species of Union concern (I01)	M
Threat	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M

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8.2 Sources of information			
8.3 Additional information	IAS union concern: Herp	estes javar	nicus É. Geoffroy Saint-Hilaire
9. Conservation measures			
9.1 Status of measures	a) Are measures needed	?	Yes
	b) Indicate the status of I	measures	Measures identified, but none yet taken
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) Rangeb) Populationc) Habitat of the species	Unknown Unknown Unknown	
10.2 Additional information			
11. Conclusions			
11.1. Range	Unknown (XX)		
11.2. Population	Unknown (XX)		
11.3. Habitat for the species	Unknown (XX)		
11.4. Future prospects	Unknown (XX)		
11.5 Overall assessment of Conservation Status	Unknown (XX)		
11.6 Overall trend in Conservation Status			
11.7 Change and reasons for change in conservation status and conservation status trend	a) Overall assessment of	conservation	on status
conscivation status tiena	The change is mainly due	e to:	

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The change is mainly due to:

11.8 Additional information

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

- 12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)
- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State HR 1.2 Species code 1289 1.3 Species scientific name Telescopus fallax 1.4 Alternative species scientific name

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	Yes

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

1.5 Common name (in national language) crnokrpica

3.1 Is the species taken in the wild/exploited?
3.2 Which of the measures in Art. 14 have been taken?

No

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				er hunting sed) over t	_	=
	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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

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Koren, T., Lauš, B., Burić, I., Kuljerić, M., 2011. Contribution to the herpetofauna (amphibians & reptiles) of the Kornati archipelago, Croatia. Natura Croatica 20, 387–396.

Mekinić, S., Nediljko, Ž., Boban, J., Piasevoli, G., Vladović, D., 2015. Snakes in herpetological collection of the Natural History Museum in Split (Croatia) collected from 1924 untill 2015. Hyla: Herpetological bulletin 2015, 4–10. Tóth, T., Heltai, M., Keszi, A., Sušić, G., Moharos, L., Farkas, B., Géczy, C., Torda, O., Gál, J., 2017. Herpetofauna inventory of the small islands of the Cres—Lošinj Archipelago (North Adriatic Sea, Croatia) (Amphibia; Reptilia). Herpetozoa 30, 21–28.

Vilaj, I., 2014. Doprinos poznavanju herpetofaune otoka Hvara, in: Barišić, M., Burić, I., Gazić, M., Sučić, I. (Eds.), Istraživanje bioraznolikosti otoka Hvara 2011. Udruga studenata biologije - BIUS, Zagreb, pp. 136–156.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb. 285 str.

5. Range

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5.1 Surface area	15500	
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 da	ita available
5.6 Long-term trend Period		
5.7 Long-term trend Direction		
5.8 Long-term trend Magnitude	a) Minimum	b) Maximum
5.9 Long-term trend Method used		
5.10 Favourable reference range	a) Area (km²)b) Operatorc) Unknownd) Method	x
5.11 Change and reason for change in surface area of range	The change is mainly	y due to:
5.12 Additional information		
6. Population		
6.1 Year or period	2007-2018	
6.2 Population size (in reporting unit)	a) Unit b) Minimum c) Maximum	number of map 1x1 km grid cells (grids1x1)
	d) Best single value	55
C. 2. Trung of potiments	N 4 imimo umo	

6.3 Type of estimate

6.4 Additional population size (using population unit other than reporting unit)

Minimum

a) Unit

b) Minimum

c) Maximum

d) Best single value

6.5 Type of estimate

6.6 Population size Method used

Based mainly on expert opinion with very limited data

6.7 Short-term trend Period 2007-2018

6.8 Short-term trend Direction Unknown (x)

6.9 Short-term trend Magnitude a) Minin

a) Minimumb) Maximum

c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

6.11 Long-term trend Period

6.12 Long-term trend Direction

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- 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
- c) Unknown
- d) Method
- 6.16 Change and reason for change in population size

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)?

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
- 7.4 Short-term trend Direction
- 7.5 Short-term trend Method used
- 7.5 Short-term trend Method as
- 7.6 Long-term trend Period
- 7.7 Long-term trend Direction
- 7.8 Long-term trend Method used
- 7.9 Additional information

2007-2018

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M
Invasive alien species of Union concern (I01)	M
Threat	Ranking
Removal of small landscape features for agricultural land	M

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parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)

, , .,,	
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M
Invasive alien species of Union concern (I01)	М

8.2 Sources of information

8.3 Additional information IAS union concern: Herpestes javanicus É. Geoffroy Saint-Hilaire

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

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 Unknown b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

, ,

11.5 Overall assessment of Unknown (XX) Conservation Status

11.6 Overall trend in Conservation Status

11.7 Change and reasons for change

in conservation status and conservation status trend

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

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The change is mainly due to:

11.8 Additional information

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

- 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
 - b) Minimum
 - c) Maximum
 - d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State 1.2 Species code 1.3 Species scientific name 1.4 Alternative species scientific name 1.5 Common name (in national language) poskok

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited 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?
3.2 Which of the measures in Art 14 have been taken?

No

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		-		er hunting sed) over t	-	-
	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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Dieckmann, M., 2006. Die Lacertiden der norddalmatinischen Insel Dugi Otok. Die Eidechse 17, 52–56.

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., Ajtić, R., Sterijovski, B., Crnobrnja-Isailović, J., Lelo, S., Tomović, L., 2013. Distribution of the genus Vipera in the western and central Balkans (Squamata: Serpentes: Viperidae). Herpetozoa 25, 109–132.

Jelić, D., Budinski, I., Lauš, B., 2012. Distribution and conservation status of the batracho- and herpetofauna of the Croatian island of Mljet (Anura; Testudines; Squamata: Sauria, Serpentes). Herpetozoa 24, 165–178.

Kerovec, M., Mrakovčić, M., Hršak, V., Grubešić, M., Vujčić-Karlo, S., Kučinić, M., Radović, D., Ternjej, I., Mihaljević, Z., Gottstein, S., Schneider, D., Bartovsky, V., 1999. Projekt Sava Sustav obrane od poplava u srednjoj Posavini. Studija općih značajki bioloških resursa -dio procjene utjecaja na okoliš-. Prirodoslovnomatematički fakultet, Zagreb.

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Lauš, B., 2015. Istraživanje populacija četveroprugog kravosasa (Elaphe quatuorlineata) i crvenkrpice (Zamenis situla) na Natura 2000 području Ravni kotari (kod: HR2001361) (završni izvještaj). Hrvatsko herpetološko društvo – Hyla, Zagreb.

Madl, R., 2017. First record of Elaphe quatuorlineata (BONNATERRE, 1790), from

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the Island of Dugi Otok (Croatia). Herpetozoa 30, 96–100. Mekinić, S., Nediljko, Ž., Boban, J., Piasevoli, G., Vladović, D., 2015. Snakes in herpetological collection of the Natural History Museum in Split (Croatia) collected from 1924 untill 2015. Hyla: Herpetological bulletin 2015, 4–10. Vamberger, M., 2012. Poročilo skupine za dvoživke in plazilce, in: Ekosistemi Jadrana, Pag 2007. Društvo študentov biologije, Ljubljana, pp. 10–17. Vilaj, I., 2014. Doprinos poznavanju herpetofaune otoka Hvara, in: Barišić, M., Burić, I., Gazić, M., Sučić, I. (Eds.), Istraživanje bioraznolikosti otoka Hvara 2011. Udruga studenata biologije - BIUS, Zagreb, pp. 136–156.

Zadravec, M., Koren, T., 2017. Further evidence of nocturnal activity of Vipera ammodytes (Linnaeus, 1758). Herpetozoa 30, 107–108.

Žagar, A., Cafuta, V., Drašler, K., Jagar, T., Krofel, M., Lužnik, M., Ostanek, E., Petkovska, V., Planinc, G., Sopotnik, M., Vamberger, M., 2013. A review of eleven short-term reptile surveys in the Western Balkans. Hyla: Herpetological bulletin 2013, 3–18.

Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235–240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb. 285 str.

5. Range

5.1 Surface area 21400

5.2 Short-term trend Period 2007-2018

5.3 Short-term trend Direction Stable (0)

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

5.5 Short-term trend Method used Based mainly on expert opinion with very limited data

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Minimum

b) Maximum

a) Area (km²)

b) Operator Approximately equal to (≈)

c) Unknown

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period 2007-2018

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6.2 Population size (in reporting unit)	a) Unit number of map 1x1 km grid cells (grids1x1) b) Minimum c) Maximum d) Best single value 180
6.3 Type of estimate	Minimum
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	Based mainly on expert opinion with very limited data
6.7 Short-term trend Period	2007-2018
6.8 Short-term trend Direction	Unknown (x)
6.9 Short-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval
6.10 Short-term trend Method used	Insufficient or no data available
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 c) Unknown x d) Method
6.16 Change and reason for change in population size	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 Yes sufficient (for long-term survival)?
	b) Is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term

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Based mainly on expert opinion with very limited data

survival)?

7.2 Sufficiency of area and quality of

occupied habitat Method used

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	М
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Illegal shooting/killing (G10)	M
Invasive alien species of Union concern (I01)	M
Threat	Ranking
Threat Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	Ranking M
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry	
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (L02) Conversion into agricultural land (excluding drainage and	M
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (L02) Conversion into agricultural land (excluding drainage and burning) (A01) Roads, paths, railroads and related infrastructure (e.g.	M M

8.2 Sources of information

8.3 Additional information

IAS union concern: Herpestes javanicus É. Geoffroy Saint-Hilaire, 1818

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

b) Indicate the status of measures

Yes

Measures identified, but none yet taken

9.2 Main purpose of the measures

aken

9.3 Location of the measures taken

9.4 Response to the measures

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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 Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Favourable (FV)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)
Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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

b) Minimum

c) Maximum

d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction

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12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Alpine (ALP)

Dieckmann, M., 2006. Die Lacertiden der norddalmatinischen Insel Dugi Otok. Die Eidechse 17, 52–56.

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Jelić, D., Ajtić, R., Sterijovski, B., Crnobrnja-Isailović, J., Lelo, S., Tomović, L., 2013. Distribution of the genus Vipera in the western and central Balkans (Squamata: Serpentes: Viperidae). Herpetozoa 25, 109–132.

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Kerovec, M., Mrakovčić, M., Hršak, V., Grubešić, M., Vujčić-Karlo, S., Kučinić, M., Radović, D., Ternjej, I., Mihaljević, Z., Gottstein, S., Schneider, D., Bartovsky, V., 1999. Projekt Sava Sustav obrane od poplava u srednjoj Posavini. Studija općih značajki bioloških resursa -dio procjene utjecaja na okoliš-. Prirodoslovnomatematički fakultet, Zagreb.

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Lauš, B., 2015. Istraživanje populacija četveroprugog kravosasa (Elaphe quatuorlineata) i crvenkrpice (Zamenis situla) na Natura 2000 području Ravni kotari (kod: HR2001361) (završni izvještaj). Hrvatsko herpetološko društvo – Hyla, Zagreb.

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collected from 1924 untill 2015. Hyla: Herpetological bulletin 2015, 4–10. Vamberger, M., 2012. Poročilo skupine za dvoživke in plazilce, in: Ekosistemi Jadrana, Pag 2007. Društvo študentov biologije, Ljubljana, pp. 10–17. Vilaj, I., 2014. Doprinos poznavanju herpetofaune otoka Hvara, in: Barišić, M., Burić, I., Gazić, M., Sučić, I. (Eds.), Istraživanje bioraznolikosti otoka Hvara 2011.

Udruga studenata biologije - BIUS, Zagreb, pp. 136–156.

Zadravec, M., Koren, T., 2017. Further evidence of nocturnal activity of Vipera ammodytes (Linnaeus, 1758). Herpetozoa 30, 107–108.

Žagar, A., Cafuta, V., Drašler, K., Jagar, T., Krofel, M., Lužnik, M., Ostanek, E., Petkovska, V., Planinc, G., Sopotnik, M., Vamberger, M., 2013. A review of eleven short-term reptile surveys in the Western Balkans. Hyla: Herpetological bulletin 2013, 3–18.

Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235–240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb. 285 str.

5. Range

5.1 Surface area 10400

5.2 Short-term trend Period 2007-2018

5.3 Short-term trend Direction Stable (0)

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

5.5 Short-term trend Method used Based mainly on expert opinion with very limited data

5.6 Long-term trend Period

5.7 Long-term trend Direction

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

5.9 Long-term trend Method used

5.10 Favourable reference range

.,

a) Area (km²)

b) Operator Approximately equal to (≈)

c) Unknown

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period 2007-2018

6.2 Population size (in reporting unit)

a) Unit number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 137

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6.3 Type of estimate	Minimum	
6.4 Additional population size (using	a) Unit	
population unit other than reporting unit)	b) Minimum	
unity	c) Maximum	
	d) Best single value	
6.5 Type of estimate		
6.6 Population size Method used	Based mainly on expert opinion with very limited data	
6.7 Short-term trend Period	2007-2018	
6.8 Short-term trend Direction	Unknown (x)	
6.9 Short-term trend Magnitude	a) Minimum	
	b) Maximum	
	c) Confidence interval	
6.10 Short-term trend Method used	Insufficient or no data available	
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	cy confidence interval	
6.15 Favourable reference	a) Population size	
population (using the unit in 6.2 or 6.4)	b) Operator c) Unknown x	
,	d) Method	
6.16 Change and reason for change		
in population size	The change is mainly due to:	
	The change is mainly due to.	
C 17 Additional information		
6.17 Additional information		
7. Habitat for the species		
7.1 Sufficiency of area and quality of	a) Are area and quality of occupied habitat Yes	
occupied habitat	sufficient (for long-term survival)?	
	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	Based mainly on expert opinion with very limited data	
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		
5		

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7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M
Threat	Ranking
Threat Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	Ranking M
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry	
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2) Conversion into agricultural land (excluding drainage and	M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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

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10.1 Future prospects of parameters

) Range Good

b) Population Unknown

c) Habitat of the species Unknown

10.2 Additional information

11. Conclusions

11.1. Range Favourable (FV)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

11.4. Future prospects Unknown (XX)

11.5 Overall assessment of Unknown (XX)
Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

12.1 Population size inside the pSCls, SCls and SACs network (on the biogeographical/marine level including all sites where the species is present)

a) Unit

- b) Minimum
- c) Maximum
- c) iviaxiiiiaiii

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

d) Best single value

13. Complementary information

13.1 Justification of % thresholds for trends

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13.2 Trans-boundary assessment

13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Continental (CON)

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Jelić, D., Budinski, I., Lauš, B., 2012. Distribution and conservation status of the batracho- and herpetofauna of the Croatian island of Mljet (Anura; Testudines; Squamata: Sauria, Serpentes). Herpetozoa 24, 165–178.

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Mekinić, S., Nediljko, Ž., Boban, J., Piasevoli, G., Vladović, D., 2015. Snakes in herpetological collection of the Natural History Museum in Split (Croatia) collected from 1924 untill 2015. Hyla: Herpetological bulletin 2015, 4–10. Vamberger, M., 2012. Poročilo skupine za dvoživke in plazilce, in: Ekosistemi Jadrana, Pag 2007. Društvo študentov biologije, Ljubljana, pp. 10–17. Vilaj, I., 2014. Doprinos poznavanju herpetofaune otoka Hvara, in: Barišić, M., Burić, I., Gazić, M., Sučić, I. (Eds.), Istraživanje bioraznolikosti otoka Hvara 2011. Udruga studenata biologije - BIUS, Zagreb, pp. 136–156.

Zadravec, M., Koren, T., 2017. Further evidence of nocturnal activity of Vipera ammodytes (Linnaeus, 1758). Herpetozoa 30, 107–108.

Žagar, A., Cafuta, V., Drašler, K., Jagar, T., Krofel, M., Lužnik, M., Ostanek, E., Petkovska, V., Planinc, G., Sopotnik, M., Vamberger, M., 2013. A review of eleven

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M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb. 285 str.

5. Range

5.1 Surface area

6600

5.2 Short-term trend Period

2007-2018

5.3 Short-term trend Direction

Stable (0)

5.4 Short-term trend Magnitude

a) Minimum

b) Maximum

5.5 Short-term trend Method used

Based mainly on expert opinion with very limited data

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

a) Minimum

b) Maximum

5.9 Long-term trend Method used

5.10 Favourable reference range

a) Area (km²)

b) Operator

c) Unknown

Х

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period

2007-2018

6.2 Population size (in reporting unit)

a) Unit

number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value

6.3 Type of estimate

Minimum

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

Based mainly on expert opinion with very limited data

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6.7 Short-term trend Period 2007-2018 6.8 Short-term trend Direction Unknown (x) 6.9 Short-term trend Magnitude a) Minimum b) Maximum c) Confidence interval 6.10 Short-term trend Method used Insufficient or no data available 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 a) Population size population (using the unit in 6.2 or b) Operator 6.4)c) Unknown d) Method 6.16 Change and reason for change in population size The change is mainly due to: 6.17 Additional information 7. Habitat for the species 7.1 Sufficiency of area and quality of a) Are area and quality of occupied habitat Unknown occupied habitat sufficient (for long-term survival)? 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 Insufficient or no data available occupied habitat Method used 7.3 Short-term trend Period 2007-2018

7.4 Short-term trend Direction

7.5 Short-term trend Method used

7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

Unknown (x)

Insufficient or no data available

On some locations in this biogeographic region there is an apparent loss/deterioration of habitat (e.g. southern slopes of Medvednica Mt.), due to natural succession, expansion of urban areas, and/or deterioration of dry stone walls/stone piles, due to crumbling of rocks used in their construction. The latter results in a diminished number of hiding/hibernation spots, which has a detrimental effect on the local level, even though other habitat features remain favourable.

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8. Main pressures and threats

	The second secon		
2 1	Characterisation	of proceures	throate
0.1	Cital acterization	UI DI COSUI CO	uneats

Pressure	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M
Threat	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	M

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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

Unknown

b) Population

Unknown

c) Habitat of the species

Unknown

10.2 Additional information

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11. Conclusions

11.4. Future prospects

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

Unknown (XX)

11.5 Overall assessment of Unknown (XX)
Conservation Status

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

- 13.1 Justification of % thresholds for trends
- 13.2 Trans-boundary assessment
- 13.3 Other relevant Information

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1. General information	
1.1 Member State	HR
1.2 Species code	6337
1.3 Species scientific name	Vipera ursinii macrops
1.4 Alternative species scientific name	
1.5 Common name (in national language)	nlaninski žutokrug

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	No

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

3.1 Is the species taken in the wild/exploited?
3.2 Which of the measures in Art.

No

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) Uni

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Jelić, D., Baškiera, S., 2014. Planinski žutokrug (Vipera ursinii), Nacionalni programi za praćenje stanja očuvanosti vrsta u Hrvatskoj. Državni zavod za zaštitu prirode, Zagreb.

Jelić, D., Gluhaković, M., Peranić, I., Lončar, M., 2007. Distribution of Vipera ursinii macrops and related taxa in Croatia.

Jelić, D., Kuljerić, M., Koren, T., Treer, D., Šalamon, D., Lončar, M., Podnar Lešić, M., Janev Hutinec, B., Bogdanović, T., Mekinić, S., Jelić, K., 2012. Crvena knjiga vodozemaca i gmazova Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni zavod za zaštitu prirode, Republika Hrvatska.

Tonković, M., 1934. Zmije u srezu Imotskome. Priroda 24, 89–90.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb. 285 str.

5. Range

5.1 Surface area

300

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

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, ,	•	
5.8 Long-term trend Magnitude 5.9 Long-term trend Method used	a) Minimum	b) Maximum
5.10 Favourable reference range	a) Area (km²)	
	b) Operator	
	c) Unknown	x
	d) Method	
5.11 Change and reason for change		
in surface area of range	The change is mainl	v due to:
		, 440 55.
5.12 Additional information		
6. Population		
6.1 Year or period	2007-2018	
6.2 Population size (in reporting unit)	a) Unit	number of map 1x1 km grid cells (grids1x1)
	b) Minimum	
	c) Maximum	
	d) Best single value	9
6.3 Type of estimate	Minimum	
6.4 Additional population size (using	a) Unit	
population unit other than reporting	b) Minimum	
unit)	c) Maximum	
	d) Best single value	
6.5 Type of estimate		
6.6 Population size Method used	Based mainly on exp	pert opinion with very limited data
6.7 Short-term trend Period	2007-2018	
6.8 Short-term trend Direction	Unknown (x)	
6.9 Short-term trend Magnitude	a) Minimum	
	b) Maximum	
	c) Confidence interv	al
6.10 Short-term trend Method used	Based mainly on exp	pert 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 interv	ai
6.14 Long-term trend Method used		
6.15 Favourable reference	a) Population size	
population (using the unit in 6.2 or	b) Operator	
6.4)	c) Unknown	x

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d) Method

6.16 Change and reason for change in population size

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)?

habitat of suitable quality (for long-term

b) Is there a sufficiently large area of unoccupied

Unknown

7.2 Sufficiency of area and quality of

occupied habitat Method used

7.3 Short-term trend Period

7.4 Short-term trend Direction

7.5 Short-term trend Method used

7.6 Long-term trend Period

7.7 Long-term trend Direction

7.8 Long-term trend Method used

7.9 Additional information

Insufficient or no data available

2007-2018

survival)?

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	Н
Intensive grazing or overgrazing by livestock (A09)	M
Wind, wave and tidal power, including infrastructure (D01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Threat	Ranking
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	Н
Intensive grazing or overgrazing by livestock (A09)	M
Wind, wave and tidal power, including infrastructure (D01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (LO5)	M

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Conversion from other land uses to housing, settlement or recreational areas (excluding drainage and modification of coastline, estuary and coastal conditions) (F01)

Change of habitat location, size, and / or quality due to climate change (N05)

Н

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

- a) Are measures needed?
- Yes
- b) Indicate the status of measures
- Measures identified, but none yet taken

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
- Poor
- b) Population
- Unknown
- c) Habitat of the species
- Poor

10.2 Additional information

11. Conclusions

11.1. Range

Unknown (XX)

11.2. Population

Unknown (XX)

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

Unknown (x)

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

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The change is mainly due to:

11.8 Additional information

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

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 9

12.2 Type of estimate

12.3 Population size inside the network Method used

Minimum

Based mainly on expert opinion with very limited data

12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population

size within the network Method used

Unknown (x)

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

Alpine (ALP)

4.2 Sources of information

Jelić, D., Baškiera, S., 2014. Planinski žutokrug (Vipera ursinii), Nacionalni programi za praćenje stanja očuvanosti vrsta u Hrvatskoj. Državni zavod za zaštitu prirode, Zagreb.

Jelić, D., Gluhaković, M., Peranić, I., Lončar, M., 2007. Distribution of Vipera ursinii macrops and related taxa in Croatia.

Jelić, D., Kuljerić, M., Koren, T., Treer, D., Šalamon, D., Lončar, M., Podnar Lešić, M., Janev Hutinec, B., Bogdanović, T., Mekinić, S., Jelić, K., 2012. Crvena knjiga vodozemaca i gmazova Hrvatske. Ministarstvo zaštite okoliša i prirode, Državni

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zavod za zaštitu prirode, Republika Hrvatska.
Tonković, M., 1934. Zmije u srezu Imotskome. Priroda 24, 89–90.
M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb. 285 str.

b) Maximum

5. Range

5.1 Surface area 1000

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
Insufficient or no data available

5.5 Short-term trend Method used

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

5.9 Long-term trend Method used

5.10 Favourable reference range a) Area (km²)

b) Operator Approximately equal to (≈)

c) Unknown

a) Minimum

d) Method

5.11 Change and reason for change in surface area of range

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period

2007-2018

6.2 Population size (in reporting unit)

a) Unit

number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 38

6.3 Type of estimate

Minimum

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

Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2007-2018

6.8 Short-term trend Direction

Uncertain (u)

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ii, iv alid v species (Ali	iica bj	
6.9 Short-term trend Magnitude	a) Minimumb) Maximumc) Confidence interval	
6.10 Short-term trend Method used	Based mainly on expert opinion with very limited o	data
6.11 Long-term trend Period		
6.12 Long-term trend Direction		
6.13 Long-term trend Magnitude	a) Minimumb) Maximumc) 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 sizeb) Operatorc) Unknownx	
	d) Method	
6.16 Change and reason for change in population size	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)?	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		
8. Main pressures and thre	eats	
8.1 Characterisation of pressures/thre	ats	
Pressure	Ranking	
Abandonment of grassland management	ent (e.g. cessation of H	

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Μ

grazing or mowing) (A06)

Intensive grazing or overgrazing by livestock (A09)

Wind, wave and tidal power, including infrastructure (D01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Threat	Ranking
Abandonment of grassland management (e.g. cessation of grazing or mowing) (A06)	Н
Intensive grazing or overgrazing by livestock (A09)	M
Wind, wave and tidal power, including infrastructure (D01)	М
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Reduced fecundity / genetic depression (e.g. inbreeding or endogamy) (L05)	М
Conversion from other land uses to housing, settlement or recreational areas (excluding drainage and modification of coastline, estuary and coastal conditions) (F01)	М
Change of habitat location, size, and / or quality due to climate change (N05)	Н

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

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 Poor

b) Population Unknown c) Habitat of the species Poor

10.2 Additional information

11. Conclusions

11.1. Range Unknown (XX)
11.2. Population Unknown (XX)

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11.3. Habitat for the species

11.4. Future prospects

11.5 Overall assessment of Conservation Status

11.6 Overall trend in Conservation Status

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

Unknown (XX)

Unfavourable - Inadequate (U1)

Unfavourable - Inadequate (U1)

Unknown (x)

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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 34

12.2 Type of estimate

12.3 Population size inside the network Method used

Minimum

Based mainly on expert opinion with very limited data

12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

Unknown (x)

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

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1. General information 1.1 Member State HR 1.2 Species code 6091 1.3 Species scientific name Zamenis longissimus 1.4 Alternative species scientific name

2. Maps

1.5 Common name (in national language)

3.1 Is the species taken in the

2.1 Sensitive species	No
2.2 Year or period	2009-2017
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	No

bjelica

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

No

wild/exploited?		
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	No

specimens or of quotas

h) other measures

f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens
g) breeding in captivity of animal species as well as artificial propagation of plant species

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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

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Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22–41.

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Mekinić, S., Nediljko, Ž., Boban, J., Piasevoli, G., Vladović, D., 2015. Snakes in herpetological collection of the Natural History Museum in Split (Croatia) collected from 1924 untill 2015. Hyla: Herpetological bulletin 2015, 4–10. Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235–240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb. 285 str.

5. Range

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5.1 Surface area	20100	
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 da	ıta available
5.6 Long-term trend Period		
5.7 Long-term trend Direction		
5.8 Long-term trend Magnitude	a) Minimum	b) Maximum
5.9 Long-term trend Method used		
5.10 Favourable reference range	a) Area (km²)b) Operatorc) Unknownd) Method	x
5.11 Change and reason for change in surface area of range	The change is mainl	y due to:
5.12 Additional information		
6. Population		
6.1 Year or period	2007-2018	
6.2 Population size (in reporting unit)	a) Unitb) Minimumc) Maximumd) Best single value	number of map 1x1 km grid cells (grids1x1)
6.3 Type of estimate	Minimum	
6.4 Additional population size (using population unit other than reporting unit)	a) Unit b) Minimum c) Maximum	

6.5 Type of estimate

6.6 Population size Method used Based mainly on expert opinion with very limited data

d) Best single value

6.7 Short-term trend Period 2007-2018

6.8 Short-term trend Direction Unknown (x)

6.9 Short-term trend Magnitude a) Minimum

b) Maximum

c) Confidence interval

6.10 Short-term trend Method used Insufficient or no data available

6.11 Long-term trend Period

6.12 Long-term trend Direction

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- 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
- c) Unknown
- d) Method
- 6.16 Change and reason for change in population size

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

Based mainly on expert opinion with very limited data

2007-2018

7.3 Short-term trend Period

Unknown (x)

7.4 Short-term trend Direction

Insufficient or no data available

- 7.5 Short-term trend Method used
- 7.6 Long-term trend Period
- 7.7 Long-term trend Direction
- 7.8 Long-term trend Method used
- 7.9 Additional information

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	М
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Threat	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry	М

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practices) (LO2)	
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
8.2 Sources of information	

9. Conservation measures

8.3 Additional information

9.1 Status of measures	a) Are measures needed?	Voc
9. I Status of measures	at Are measures needed?	Yes

b) Indicate the status of measures Measures identified, but none yet taken

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	Unknown
	b) Population	Unknown
	c) Habitat of the species	Unknown

Unknown (XX)

10.2 Additional information

11. Conclusions

11.1. Range

•	• •
11.2. Population	Unknown (XX)
11.3. Habitat for the species	Unknown (XX)
11.4. Future prospects	Unknown (XX)
11.5 Overall assessment of Conservation Status	Unknown (XX)
11.6 Overall trend in Conservation Status	
11.7 Change and reasons for change in conservation status and conservation status trend	a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

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The change is mainly due to:

11.8 Additional information

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

- 12.1 Population size inside the pSCls, SCls and SACs network (on the biogeographical/marine level including all sites where the species is present)
- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information
- 13. Complementary information
- 13.1 Justification of % thresholds for trends
- 13.2 Trans-boundary assessment
- 13.3 Other relevant Information

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

Alpine (ALP)

4.2 Sources of information

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Janev Hutinec, B., Lupret-Obradović, S., 2005. Zmije Hrvatske - priručnik za određivanje vrsta. Društvo za zaštitu i proučavanje vodozemaca i gmazova Hrvatske - Hyla, Kratis d.o.o., Zagreb.

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012,

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22-41

Koren, T., Črne, M., Koprivnikar, N., Trkov, D., Drašler, K., Jelić, D., 2013. Contribution to the herpetofauna (Amphibia & Reptilia) of lower Neretva River (Croatia & Bosnia and Herzegovina). Hyla: Herpetological bulletin 2012, 19–40. Mekinić, S., Nediljko, Ž., Boban, J., Piasevoli, G., Vladović, D., 2015. Snakes in herpetological collection of the Natural History Museum in Split (Croatia) collected from 1924 untill 2015. Hyla: Herpetological bulletin 2015, 4–10. Žagar, A., Carretero, M.A., Krofel, M., Lužnik, M., Podnar, M., Tvrtković, N., 2014. Reptile survey in Dinara mountain (Croatia) revealed the southernmost known population of Horvath's rock lizard (Iberolacerta horvathi). Nat. Croat. 23, 235–240.

M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb. 285 str.

5. Range

5.1 Surface area 95

5.2 Short-term trend Period

5.3 Short-term trend Direction

5.4 Short-term trend Magnitude

5.5 Short-term trend Method used

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

5.9 Long-term trend Method used

5.10 Favourable reference range

5.11 Change and reason for change in surface area of range

9500

2007-2018

Unknown (x)

a) Minimum

Insufficient or no data available

a) Minimum

b) Maximum

b) Maximum

a) Area (km²)

b) Operator

c) Unknown x

d) Method

The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period

2007-2018

6.2 Population size (in reporting unit)

a) Unit

number of map 1x1 km grid cells (grids1x1)

b) Minimum

c) Maximum

d) Best single value 35

6.3 Type of estimate

Minimum

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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

Based mainly on expert opinion with very limited data

6.7 Short-term trend Period

2007-2018

6.8 Short-term trend Direction

Unknown (x)

6.9 Short-term trend Magnitude

- a) Minimum
- b) Maximum
- c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

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
- c) Unknown
- Х

d) Method

6.16 Change and reason for change in population size

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

Based mainly on expert opinion with very limited data

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

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7.9 Additional information

	_		
0	RA-i-		and threats
*	Main	nracciirac	and threats
U .		DI COOUI CO	und tintuts

8.1 Characterisation of pressures/threats

Pressure	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Threat	Ranking
Threat Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (L02)	Ranking M
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry	

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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

Unknown

b) Population

Unknown

c) Habitat of the species

Unknown

10.2 Additional information

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11. Conclusions

11.4. Future prospects

11.1. Range Unknown (XX)

11.2. Population Unknown (XX)

11.3. Habitat for the species Unknown (XX)

Unknown (XX)

11.5 Overall assessment of Unknown (XX)

Conservation Status

11.6 Overall trend in Conservation

11.6 Overall trend in Conservation Status

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

- 12.2 Type of estimate
- 12.3 Population size inside the network Method used
- 12.4 Short-term trend of population size within the network Direction
- 12.5 Short-term trend of population size within the network Method used
- 12.6 Additional information

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

13. Complementary information

- 13.1 Justification of % thresholds for trends
- 13.2 Trans-boundary assessment
- 13.3 Other relevant Information

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4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Continental (CON)

Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

Janev Hutinec, B., Lupret-Obradović, S., 2005. Zmije Hrvatske - priručnik za određivanje vrsta. Društvo za zaštitu i proučavanje vodozemaca i gmazova Hrvatske - Hyla, Kratis d.o.o., Zagreb.

Jelić, D., Karaica, D., 2012. First data on the fauna of amphibians and reptiles of the lower Una River and its coastal area. Hyla: Herpetological bulletin 2012, 22–41.

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M. Zadravec, P. Gambiroža, 2019. Prvo izvješće o stanju očuvanosti vrsta vodozemaca i gmazova Republike Hrvatske, Zagreb. 285 str.

5. Range

5.1 Surface area

5.2 Short-term trend Period

5.3 Short-term trend Direction

5.4 Short-term trend Magnitude

5.5 Short-term trend Method used

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

5.9 Long-term trend Method used

5.10 Favourable reference range

28300

2007-2018

Unknown (x)

a) Minimum

b) Maximum

Insufficient or no data available

a) Minimum

b) Maximum

a) Area (km²)

b) Operator

Approximately equal to (≈)

c) Unknown d) Method

5.11 Change and reason for change in surface area of range

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The change is mainly due to:

5.12 Additional information

6. Population

6.1 Year or period	2007-2018
6.2 Population size (in reporting unit)	a) Unit number of map 1x1 km grid cells (grids1x1) b) Minimum c) Maximum d) Best single value 144
6.3 Type of estimate	Minimum
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	Based mainly on expert opinion with very limited data
6.7 Short-term trend Period	2007-2018
6.8 Short-term trend Direction	Unknown (x)
6.9 Short-term trend Magnitude	a) Minimum

6.10 Short-term trend Method used

6.11 Long-term trend Period

6.12 Long-term trend Direction

6.13 Long-term trend Magnitude

b) Maximum

6.14 Long-term trend Method used

6.15 Favourable reference population (using the unit in 6.2 or 6.4)

a) Population size

c) Confidence interval

b) Operator

b) Maximum

a) Minimum

c) Confidence interval

Insufficient or no data available

c) Unknown x

d) Method

6.16 Change and reason for change in population size

The change is mainly due to:

6.17 Additional information

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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)?

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

Based mainly on expert opinion with very limited data

Yes

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Threat	Ranking
Threat Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry practices) (LO2)	Ranking M
Natural succession resulting in species composition change (other than by direct changes of agricultural or forestry	

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

b) Indicate the status of measures Measures identified, but none yet taken

Yes

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- 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
- Unknown
- b) Population
- Unknown
- c) Habitat of the species
- Unknown

10.2 Additional information

11. Conclusions

11.1. Range

Unknown (XX)

11.2. Population

Unknown (XX)

11.3. Habitat for the species

Unknown (XX)

11.4. Future prospects

Unknown (XX)

11.5 Overall assessment of

Unknown (XX)

Conservation Status

11.6 Overall trend in Conservation

Status

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

a) Overall assessment of conservation status

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The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

12.2 Type of estimate

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

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

10.3.2020.

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

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12.3 Population size inside the network Method used

12.4 Short-term trend of population size within the network Direction

12.5 Short-term trend of population size within the network Method used

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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1. General information 1.1 Member State HR 1.2 Species code 6095 1.3 Species scientific name Zamenis situla 1.4 Alternative species scientific name

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2007-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on expert opinion with very limited data
2.5 Additional maps	Yes

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

No

1.5 Common name (in national language) crvenkrpica

3.1 Is the species taken in the wild/exploited?								
2	2	VA/I	aich	of the	mooc	uroc	in	۸

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

Provide statistics/quantity per hunting season or pe 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

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

Mediterranean (MED)

22800

Dajčman, U., 2017. Poročilo o delu skupine za plazilce, in: Ekosistemi Balkana, Vransko jezero 2016. Društvo študentov biologije, Ljubljana, pp. 66–72. Drašler, K., 2014. Poročilo o delu skupine za plazilce, in: Ekosistemi Jadrana 2011 - delta Neretve. Društvo študentov biologije, Ljubljana, pp. 35–41. Džukić, G., Tomović, L., Anđelković, M., Urošević, A., Nikolić, S., Kalezić, M., 2017. The herpetological collection of the Institute for biological research "Siniša Stanković", University of Belgrade. Bulletin of the Natural History Museum 10, 57–104. https://doi.org/10.5937/bnhmb1710057D

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5. Range

5.1 Surface area

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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 availa	able
5.6 Long-term trend Period		
5.7 Long-term trend Direction		
5.8 Long-term trend Magnitude	a) Minimum	b) Maximum
5.9 Long-term trend Method used		
5.10 Favourable reference range	a) Area (km²)	
	b) Operator	
	c) Unknown x	
	d) Method	
5.11 Change and reason for change		
in surface area of range	The character to be to be de-	
	The change is mainly due to	

5.12 Additional information

6. Population

6. Population	
6.1 Year or period	2007-2018
6.2 Population size (in reporting unit)	a) Unit number of map 1x1 km grid cells (grids1x1) b) Minimum c) Maximum d) Best single value 189
6.3 Type of estimate	Minimum
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	Based mainly on expert opinion with very limited data
6.7 Short-term trend Period	2007-2018
6.8 Short-term trend Direction	Unknown (x)
6.9 Short-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval
6.10 Short-term trend Method used	Insufficient or no data available
6.11 Long-term trend Period	
6.12 Long-term trend Direction	

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- 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
- c) Unknown Х
- d) Method

6.16 Change and reason for change in population size

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)?

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
- 7.4 Short-term trend Direction
- 7.5 Short-term trend Method used
- 7.6 Long-term trend Period
- 7.7 Long-term trend Direction
- 7.8 Long-term trend Method used
- 7.9 Additional information

2007-2018

Unknown (x)

Insufficient or no data available

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	М
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	М
Illegal shooting/killing (G10)	Н
Invasive alien species of Union concern (I01)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	M

Threat Ranking

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Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	M
Illegal shooting/killing (G10)	Н
Invasive alien species of Union concern (I01)	M
Conversion into agricultural land (excluding drainage and burning) (A01)	М

8.2 Sources of information

8.3 Additional information

IAS union concern: Herpestes javanicus É. Geoffroy Saint-Hilaire

9. Conservation measures

9.1 Status of measures

a) Are measures needed?

Yes

b) Indicate the status of measures

Measures identified, but none yet taken

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9.2 Main purpose of the measures

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

Unknown

b) Population

Unknown

c) Habitat of the species

Unknown

10.2 Additional information

11. Conclusions

Unknown (XX) 11.1. Range 11.2. Population

11.3. Habitat for the species Unknown (XX)

Unknown (XX) 11.4. Future prospects

Conservation Status

11.5 Overall assessment of

Unknown (XX)

Unknown (XX)

11.6 Overall trend in Conservation **Status**

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

a) Overall assessment of conservation status

The change is mainly due to:

b) Overall trend in conservation status

The change is mainly due to:

11.8 Additional information

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

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 146

12.2 Type of estimate

12.3 Population size inside the network Method used

Minimum

Based mainly on expert opinion with very limited 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

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

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