Podiceps nigricollis (Black-necked Grebe)

European Red List of Birds

Supplementary Material

The European Union (EU28) Red List assessments were based principally on the official data reported by EU Member States to the European Commission under Article 12 of the Birds Directive in 2019-20. For the European Red List assessments, similar data were sourced from BirdLife Partners and other collaborating experts in other European countries and territories. For more information, see BirdLife International (2021).

Contents

Recommended citation

BirdLife International (2021) European Red List of Birds. Luxembourg: Publications Office of the European Union.

Further information

http://datazone.birdlife.org/info/euroredlist
http://www.birdlife.org/europe-and-central-asia/european-red-list-birds-0
http://www.iucnredlist.org/regions/europe
http://ec.europa.eu/environment/nature/conservation/species/redlist/

Data requests and feedback

To request access to these data in electronic format, provide new information, correct any errors or provide feedback, please email science@birdlife.org.

Table 1. Reported national breeding population size and trends in Europe[1].

Country (or territory)[2]	Population estimate				Short-term population trend[5]				Long-term population trend[5]				Subspecific population (where relevant)
	Size (pairs)[3]	Europe (%)	Year(s)	Method[4]	Direction[6]	Magnitude (%)[7]	Year(s)	Method[4]	Direction[6]	Magnitude (%)[7]	Year(s)	Method[4]	
Albania	2–5	<1	2007-2018	complete	-	-80 to -60	2007-2018	complete	-	-80 to -60	1980-2018	expert	
Austria	0–21	<1	2013-2017	complete	+		2007-2018	complete	-		1981-2018	partial	
Belarus	1500–2500	4	2010-2018	partial	0	-10 to 10	2012-2019	expert	F	-30 to 30	1980-2019	expert	
Belgium	230–380	<1	2013-2018	complete	+	16 to 91	2008-2018	complete	+	4082 to 6809	1973-2018	partial	
Bosnia & HG	50–100	<1	2015-2018	complete	?	-10 to 10	2007-2018	complete	-	-5 to -1	1980-2018	expert	
Bulgaria	20–60	<1	2005-2018	partial	-	-30 to -15	2000-2018	partial	-	-50 to -40	1980-2018	partial	
Croatia	70–90	<1	2013-2018	complete	0		2007-2018	expert	?		1980-2018	deficient	
Czechia	50–80	<1	2014-2017	complete	-	-87 to -83	2001-2017	complete	-		1981-2017	partial	
Denmark	130–140	<1	2017	complete	?		2006-2017	expert	0	-31 to 110	1980-2017	complete	
France	1200–2000	4	2009-2012	partial	?		2007-2018	deficient	+	41 to 74	1985-2012	partial	
Georgia	100–1100	<1	2013-2017	partial	?			deficient	?				
Germany	900–1100	2	2011-2016	complete	-	-46 to 1	2004-2016	complete	-		1985-2016	expert	
Greece	40–50	<1	2015	partial	+		2007-2018	partial	?		1980-2018	deficient	
Hungary	100–250	<1	2015-2017	complete	-	-78 to -66	2008-2018	partial	-	-78 to -66	1980-2018	partial	
Kosovo	2–6	<1	2007-2019	expert	?		2007-2018	partial	+		1990-2018	partial	
Latvia	0–5	<1	2013-2018	expert	-	-89 to -85	2012-2018	partial	-	-92 to -90	1991-2017	partial	
Lithuania	50–80	<1	2013-2018	partial	-	-53 to -50	2013-2018	partial	-	-20 to -10	1980-2018	partial	
North Macedonia	10–50	<1	2014-2019	expert	0		2007-2018	expert	?		1980-2019		
Moldova	20–50	<1	2014-2017	partial	+		2007-2018	partial	0		1990-2018	expert	
Montenegro	5–10	<1	2002-2012	expert	0		2007-2018	expert	?				
Netherlands	410–540	1	2013-2017	complete	0	-23 to 32	2006-2017	complete	+	460 to 561	1980-2017	complete	
Norway	1	<1	2013-2018	complete	F		2013-2018	complete	+	100	1980-2018	complete	
Poland	1000–2000	3	2013-2018	expert	?	-54 to 194	2007-2018	complete	-	-70 to -60	1980-2018	expert	
Romania	300–3000	2	2013-2018	expert	?		2007-2018	deficient	?		1980-2018	deficient	
Russia	20000–30000	55	2008-2018	partial	-	0	2010-2018	partial	?		1980-2018	expert	
Serbia	120–300	<1	2013-2018	partial	-	-29 to -10	2007-2018	complete	F	0	1980-2018	complete	
Slovakia	0–5	<1	2013-2018	partial	-	-95 to -50	2007-2018	partial	-	-60 to -40	1980-2018	partial	
Slovenia	0–5	<1	2013-2018	complete	?		2007-2018	complete	+	0 to 400	1980-2018	complete	
Spain	2300–3800	7	2007	partial	0		2007-2018	expert	0		1980-2018	complete	
Sweden	80–110	<1	2013-2018	complete	-	-35 to -15	2007-2018	complete	+	800 to 1200	1980-2018	complete	
Switzerland	3–4	<1	2013–2016	complete	F	-23 to 1524	2007-2018	complete	F	-77 to 101	1990-2018	complete	
Turkey	800–1600	3	2002-2012	partial	?		2008-2019	deficient	?		1980-2013	deficient	

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	Size (pairs)[3]	Europe (%)	Year(s)	Method[4]	Direction[6]	Magnitude (%)[7]	Year(s)	Method[4]	Direction[6]	Magnitude (%)[7]	Year(s)	Method[4]	
Ukraine	6000–8500	15	2015-2017	partial	-	-20 to -10	2007-2019	partial	F		1980-2018	partial	
United Kingdom	50–60	<1	2012-2016	complete	0		2001-2016	complete	+		1978-2016	complete	
EU28	6900–13700	21											
Europe	**35500–57900**	**100**											

[1] See 'Sources' at end of factsheet, and for more details on individual EU Member State reports, see the Article 12 reporting portal at http://bd.eionet.europa.eu/article12/report.
[2] The designation of geographical entities and the presentation of the material do not imply the expression of any opinion whatsoever on the part of IUCN or BirdLife International concerning the legal status of any country, territory or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.
[3] In the few cases where population size estimates were reported in units other than those specified, they were converted to the correct units using standard correction factors.
[4] The 'method used' (replacing the data 'quality' assessment in the 2015 European Red List) is reported as: a) Complete: complete survey or a statistically robust estimate; b) Partial: based mainly on extrapolation from a limited amount of data; c) Expert: based mainly on expert opinion with very limited data; d) Defficient: insufficient or no data available.
[5] The robustness of regional trends to the effects of any missing or incomplete data was tested using plausible scenarios, based on other sources of information, including any other reported information, recent national Red Lists, scientific literature, other publications and consultation with relevant experts.
[6] Trend directions are reported as: increasing (+); decreasing (-); stable (0); fluctuating (F); or unknown (?).
[7] Trend magnitudes are rounded to the nearest integer.

Table 2. Reported national wintering population sizes and trends in Europe[1]. Note that some countries within the species' wintering range did not report any data, and that only minimum totals are presented, to avoid double-counting of birds moving between countries.

Country (or territory)[2]	Population estimate				Short-term population trend[5]				Long-term population trend[5]				Subspecific population (where relevant)
	Size (individuals)[3]	Europe (%)	Year(s)	Method[4]	Direction[6]	Magnitude (%)[7]	Year(s)	Method[4]	Direction[6]	Magnitude (%)[7]	Year(s)	Method[4]	
Albania	300–3100	2	2007-2018	complete	0	0 to 2	2007-2018	complete	+	0 to 100	1980-2018	complete	
Armenia	100–200	<1	2013-2018	partial	-	-5 to -3	2007-2018	partial	?		2003-2018	deficient	
Austria	30–300	<1	2013-2018	complete	+		2007-2018	complete	+		1981-2018	complete	
Azerbaijan	10000–50000	30	1996-2019	complete	0		2010-2019	complete	?		1980-2019	expert	
Belgium	19–80	<1	2013-2018	complete	?	-5 to 393	2007-2018	complete	+	133 to 945	1992-2018	complete	
Bosnia & HG	10–100	<1	2015-2018	complete	?		2007-2018	deficient	?		1980-2018	deficient	
Bulgaria	500–2000	1	2013-2018	partial	F		2000-2018	partial	-	-15 to -5	1980-2018	partial	
Croatia	3000	4	2010-2010	expert	?		2007-2018	deficient	?		1980-2013	deficient	
France	7100–12500	12	2007-2018	complete	-	-32 to -18	2007-2017	complete	0		1980-2018	expert	
Germany	850	1	2011-2016	complete	+	200 to 273	2003-2016	complete	+	933 to 1157	1980-2016	partial	
Greece	1500–5000	4	2013-2018	partial	-		2007-2018	partial	?		1980-2018	deficient	
Italy	9600–11700	14	2013-2015	partial	+	10 to 25	2009-2015	partial	0		1991-2015	partial	
Kosovo	6	<1	2019	complete	?				?				
North Macedonia	500–6000	2	2013-2018	complete	+	20 to 300	2010-2019	complete	-	-90 to -50	1988-2018	complete	
Moldova	2–10	<1	2018-2019	partial	F		2007-2018	partial	0		1990-2018	expert	
Montenegro	1000–5000	3	2013-2018	expert	+		2007-2018	expert	?				
Netherlands	540–1300	1	2013-2017	complete	?	-32 to 75	2006-2017	complete	+	358 to 1035	1981-2017	complete	
Portugal	60–1400	<1	2013-2018	complete	?	34 to 197	2007-2018	complete	+		1988-2018	partial	
Romania	280–1900	1	2013-2018	partial	+	9 to 31	2013-2018	complete	+	3 to 10	2000-2018	complete	
Serbia	10–100	<1	2013-2018	complete	F		2013-2018	complete	?		1980-2018	deficient	
Spain	8200–8300	11	2013-2018	partial	0		2007-2018	partial	+		1980-2018	expert	
Switzerland	3000–5100	5	2015-2019	complete	+	21 to 28	2008-2019	complete	+	112 to 119	1980-2019	complete	
Turkey	2100–10000	6	2013-2019	complete	?		2008-2019	deficient	?		1980-2019	deficient	
Ukraine	150–500	<1	2014-2017	partial	-		2007-2018	partial	F		1980-2018	partial	
EU28	31600–46300	49											
Europe	**49100–129000**	**100**											

Table 2. Reported national wintering population sizes and trends in Europe[1]. Note that some countries within the species' wintering range did not report any data, and that only minimum totals are presented, to avoid double-counting of birds moving between countries.

Country (or territory)[2]	Population estimate				Short-term population trend[5]				Long-term population trend[5]				Subspecific population (where relevant)
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[7] Trend magnitudes are rounded to the nearest integer.

Trend maps

A symbol appears in each country where the species occurs: the shape and colour of the symbol represent the population trend in that country, and the size of the symbol corresponds to the proportion of the European population occurring in that country.

KEY

- Large increase (≥50%)
- Moderate increase (20–49%)
- Small increase (<20%)
- Increase of unknown magnitude
- Large decrease (≥50%)
- Moderate decrease (20–49%)
- Small decrease (<20%)
- Decrease of unknown magnitude
- Stable or fluctuating
- Unknown
- Present (no population or trend data)
- Extinct since 1980

Each symbol, with the exception of Present and Extinct, may occur in up to three different size classes, corresponding to the proportion of the European population occurring in that country.

- Large: ≥10% of the European population
- Medium: 1–9% of the European population
- Small: <1% of the European population

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Figure 1. Breeding population sizes and short-term trends across Europe.

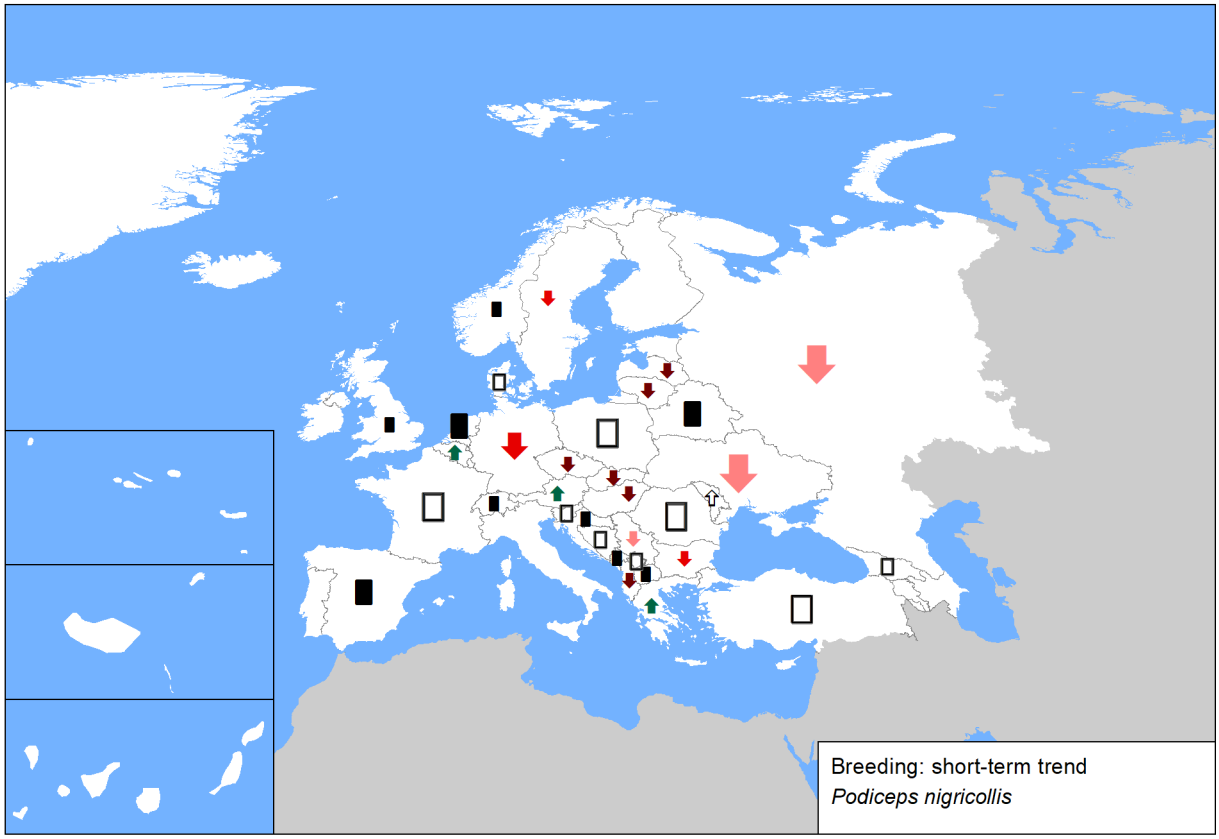


Figure 2. Breeding population sizes and long-term trends across Europe.

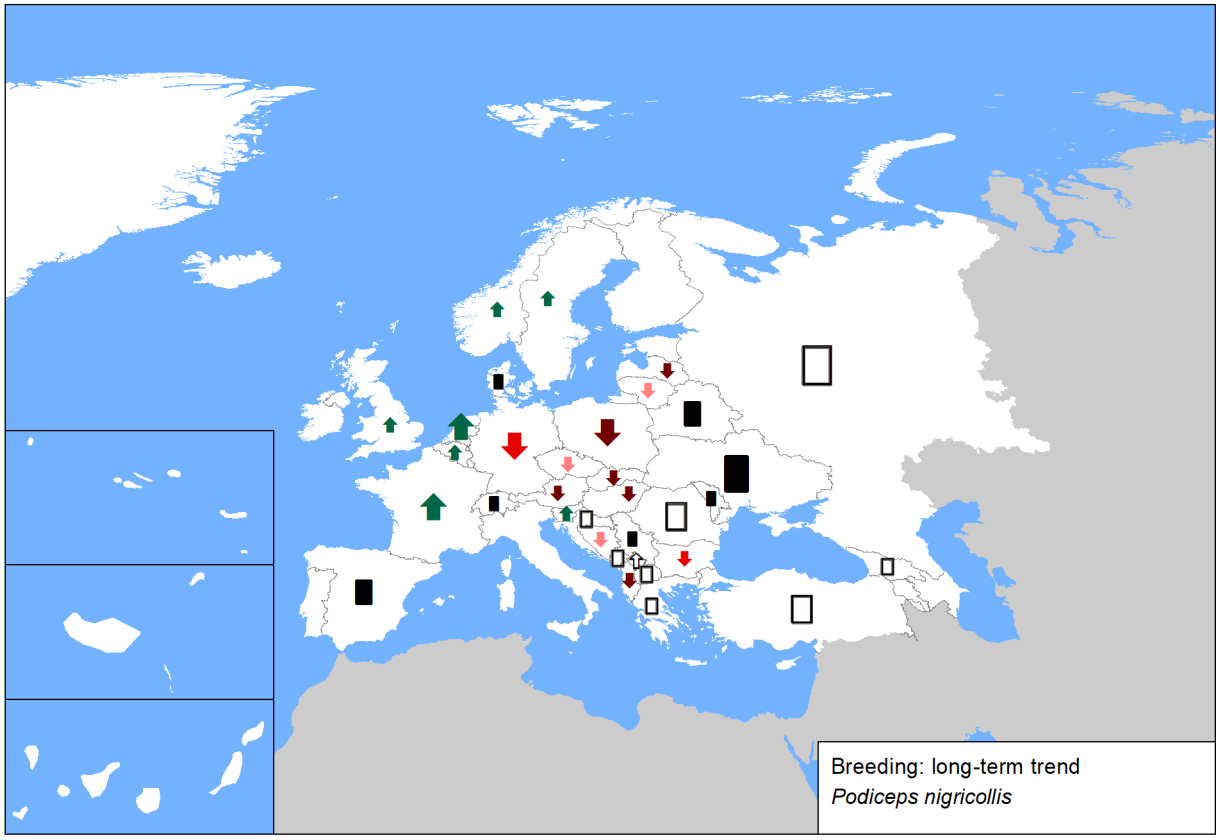


Figure 3. Reported wintering population sizes and short-term trends across Europe. Note that some countries within the species' wintering range did not report any data.

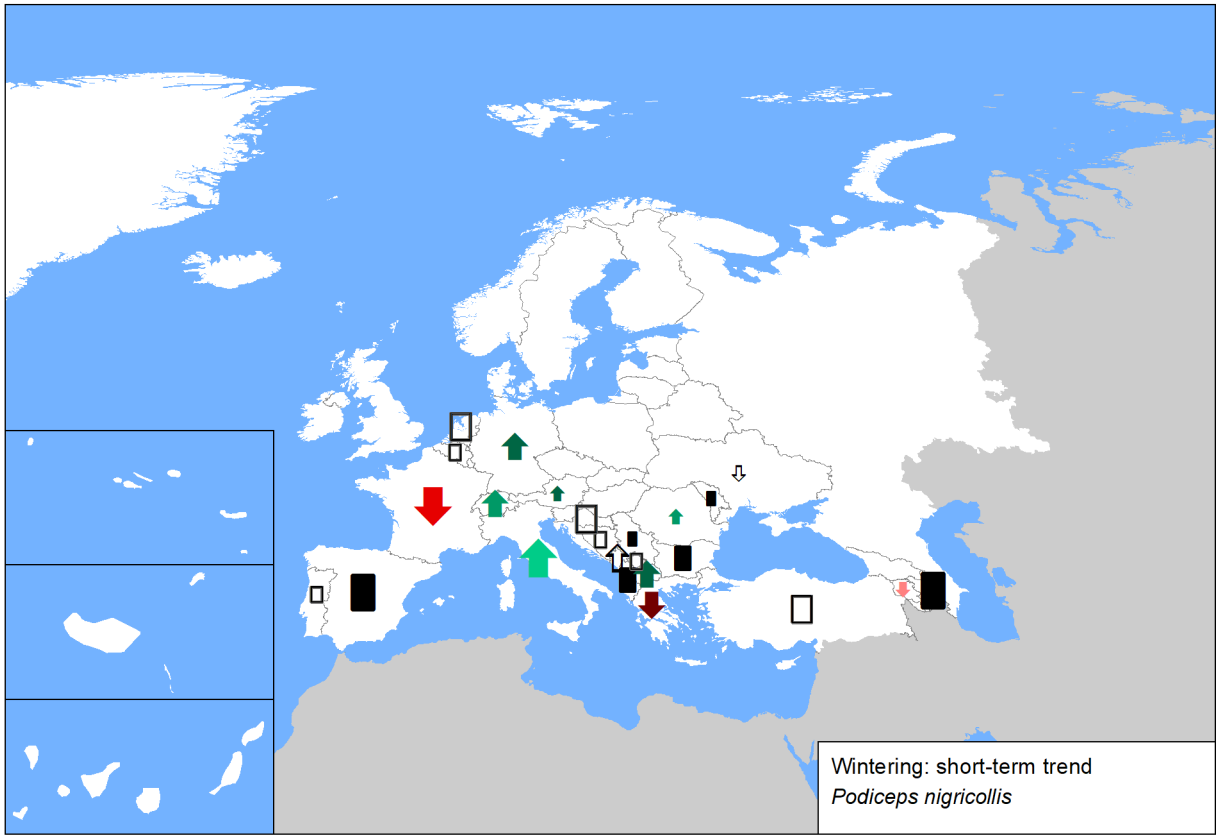
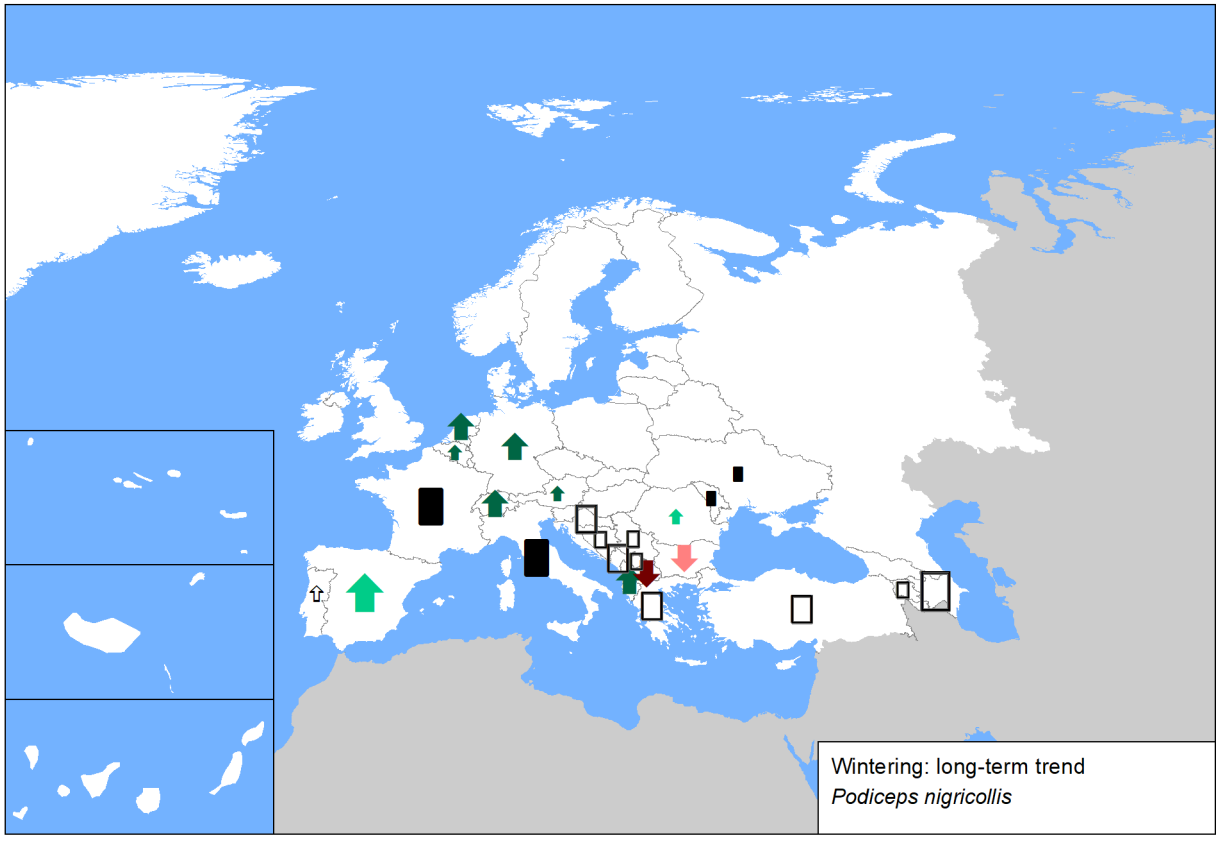


Figure 4. Reported wintering population sizes and long-term trends across Europe. Note that some countries within the species' wintering range did not report any data.



Sources

Albania

Breeding population size: Bino & Xeka 2020 in EBBA 2
Breeding short-term trend: Bino & Xeka pers. obs.
Breeding long-term trend: Bino pers. obs.
Winter population size: Bino pers. obs.
Winter short-term trend: Bino et al. 2018
Winter long-term trend: Bino et al. 2018

Armenia

Winter population size: TSE NGO, National Bird Monitoring
Winter short-term trend: TSE calculations using TRIM
Winter long-term trend: TSE calculations using TRIM

Austria

Breeding population size: BirdLife Austria, unpublished data from the bird monitoring programm of the Neusiedler See - Seewinkel national park
Breeding short-term trend: BirdLife Austria, unpublished data from the bird monitoring programm of the Neusiedler See - Seewinkel national park
Breeding long-term trend: Dvorak et al. 1994, Dvorak et al. 2016, unpublished data from various sources and databases
Winter population size: BirdLife Austria, data of the International Waterfowl Counts (January count)
Winter short-term trend: BirdLife Austria, data of the International Waterfowl Counts (January count)
Winter long-term trend: BirdLife Austria, data of the International Waterfowl Counts (January count)

Azerbaijan

Winter population size: AOS data base
Winter short-term trend: AOS Data Base
Winter long-term trend: AOS Data Base

Belarus

Breeding population size: Research work of the National Academy of Sciences of the Republic of Belarus “Dynamics and predictive assessment of changes in the state of populations of the main resource and biocenotically most important bird species in Belarus”
Breeding long-term trend: Nikiforov M.E., Kozulin A.V., eds. Belarussian birds at the beginning of XXI century: status, numbers, distribution. - 1997. - Minsk. - 187 p.

Belgium

Breeding population size: Vermeersch G. et al. (2018, in press). Broedvogels in Vlaanderen in de periode 2013-2018. Rapporten van het Instituut voor Natuur- en Bosonderzoek (INBO), Brussel. / Paquet, J-Y., Anselin, A., Vermeersch, G., Derouaux, A., Devos, K. (2019, in prep.). Contribution of Belgium to EBCC European Breeding Bird Atlas 2. Internal Report.
Breeding short-term trend: Vermeersch G. et al. (2018, in press). Broedvogels in Vlaanderen in de periode 2013-2018. Rapporten van het Instituut voor Natuur- en Bosonderzoek (INBO), Brussel. / Paquet, J-Y., Anselin, A., Vermeersch, G., Derouaux, A., Devos, K. (2019, in prep.). Contribution of Belgium to EBCC European Breeding Bird Atlas 2. Internal Report.
Breeding long-term trend: Vermeersch G. et al. (2018, in press). Broedvogels in Vlaanderen in de periode 2013-2018. Rapporten van het Instituut voor Natuur- en Bosonderzoek (INBO), Brussel. / Paquet, J-Y., Anselin, A., Vermeersch, G., Derouaux, A., Devos, K. (2019, in prep.). Contribution of Belgium to EBCC European Breeding Bird Atlas 2. Internal Report.
Winter population size: Waterbird database INBO
Winter short-term trend: Waterbird database INBO & Aves
Winter long-term trend: Waterbird database INBO & Aves

Bosnia and Herzegovina

Breeding population size: Based on data for EBBA2
Breeding short-term trend: more individual articles e.g published in magazine Bilten mreže posmatrača ptica u Bosni i Hercegovini-see https://ptice.ba/bs/category/bilteni_/), individual reports (e.g. for EBBA2, projects etc)
Breeding long-term trend: individual unpublish data, individual reports, reports for EBBA2
Winter population size: based on IWC reports-all reports published in magazine Bilten mreže posmatrača ptica (www.ptice.ba)
Winter short-term trend: based on IWC reports-all reports published in magazine Bilten mreže posmatrača ptica (www.ptice.ba)
Winter long-term trend: There are no qualitative data before 2005 to make estimates

Bulgaria

Breeding population size: Iankov, P. (ed.) 2007 Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 679 p.; National Art. 12 reporting database 2013-2018; BSPB Bird Database Ivanov, B. 2011. Fauna of Bulgaria, Vol. 30, Aves, part III, Sofia, BAS, 409 p. (in Bulgarian with English Summary)

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Bulgaria

Breeding short-term trend: Iankov, P. (ed.) 2007 Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 679 p.; National Art. 12 reporting database 2013-2018; BSPB Bird Database Ivanov, B. 2011. Fauna of Bulgaria, Vol. 30, Aves, part III, Sofia, BAS, 409 p. (in Bulgarian with English Summary)
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Winter population size: Wetlands International (2019): Submitted IWC data for Bulgaria for period 2013-2018.; National Art. 12 reporting database 2013-2018; National workshop of experts, Sofia 27-29.8.2019
Winter short-term trend: Wetlands International (2019): Submitted IWC data for Bulgaria for period 2013-2018.; National Art. 12 reporting database 2013-2018; Michev, T., Profirov, L. 2003. Mid-winter numbers of waterbirds in Bulgaria. Pensoft. Sofia-Moscow. Kostadinova, I. Dereliev, S. 2001. Results from the mid-winter counts of waterbirds in Bulgaria for the period 1997-2001. Bulgarian Society for the protection of Birds. Sofia BSPB Bird Database
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Croatia

Breeding population size: Dumbović Mazal V., Pintar V., Zadravec M. (2019): Prvo izvješće o brojnosti i rasprostranjenosti ptica u Hrvatskoj sukladno odredbama Direktive o pticama.
Breeding short-term trend: Dumbović Mazal V., Pintar V., Zadravec M. (2019): Prvo izvješće o brojnosti i rasprostranjenosti ptica u Hrvatskoj sukladno odredbama Direktive o pticama.
Breeding long-term trend: Dumbović Mazal V., Pintar V., Zadravec M. (2019): Prvo izvješće o brojnosti i rasprostranjenosti ptica u Hrvatskoj sukladno odredbama Direktive o pticama.
Winter population size: Report on the implementation of AEWA for the period 2009-2011 - Croatia. http://www.unep-aewa.org/en/document/national-report-croatia-2
Winter short-term trend: no data available
Winter long-term trend: no data available

Czechia

Breeding population size: Šťastný et Bejček in prep. - Atlas hnízdního rozšíření ptáků ČR 2014-2017
Breeding short-term trend: Trends in waterbird breeding population size were estimated using changes in population data from nation-wide numbers project of "Atlas of Breeding Bird Distribution" carried out in whole Czech Republic in 2001 -2003 and 2014 – 2017. Range of relative change in breeding population size was used as the measurement of population trend. The values of relative rate of change were compared with data from annual monitoring (census in May – see Musil & Fuchs 1994, Musil et al. 2001, Čehovská et al. 2019 for the methods) on limited amount of sites (fishpond regions in south and central Bohemia - see Musil & Fuchs 1994). Čehovská M., Musil P., Musilová Z., Poláková, K. & Zouhar J. 2019: Diving duck census efficiency based on monitoring of individually marked females: the influence of breeding stage of individual females and timing of census. Bird Study in press. Musil P. Cepák J. Hudec K. & Zárybnický J. 2001. The long-term trends in the breeding waterfowl populations in the Czech Republic. OMPO, Institute of Applied Ecology, Kostelec nad Černými lesy. Musil P. & Fuchs R. 1994: Changes in abundance of water birds species in southern Bohemia (Czech Republic) in the last 10 years. Development in Hydrobiology. In: Kerekes J. J. [ed.]: Aquatic Birds in Trophic Web of Lakes. Hydrobiologia 279/280: 511–519.
Breeding long-term trend: The long-term trends were analysed using data from annual waterbird census carried out in May (see Musil & Fuchs 1994, Musil et al. 2001, Čehovská et al. 2019 for the methods) on limited amount of sites (fishpond regions in south and central Bohemia – see Musil & Fuchs 1994). The individual species trends in numbers were calculated by Trends and Indices for Monitoring data (TRIM) software (Statistics Netherlands version 3.52, Pannekoek and Van Strien, 2005). The additive slope (i.e. the change in indices from one year to the next) was used to estimate the Czech trend, see also Fouque et al. (2009), Musil et al. (2011). Čehovská M., Musil P., Musilová Z., Poláková, K. & Zouhar J. 2019: Diving duck census efficiency based on monitoring of individually marked females: the influence of breeding stage of individual females and timing of census. Bird Study in press. Fouque C, Guillemain M, Schricke V (2009) Trends in the numbers of Coot Fulica atra and wildfowl Anatidae wintering in France and their relationship with hunting activity at wetland sites. Wildfowl. Special Issue Musil P. Cepák J. Hudec K. & Zárybnický J. 2001. The long-term trends in the breeding waterfowl populations in the Czech Republic. OMPO, Institute of Applied Ecology, Kostelec nad Černými lesy. Musil P. & Fuchs R. 1994: Changes in abundance of water birds species in southern Bohemia (Czech Republic) in the last 10 years. Development in Hydrobiology. In: Kerekes J. J. [ed.]: Aquatic Birds in Trophic Web of Lakes. Hydrobiologia 279/280: 511–519. Musil P, Musilová Z, Fuchs R, Poláková S (2011) Long-term changes in numbers and distribution of wintering waterbirds in the Czech Republic, 1966–2008. Bird Study 58: 450–460.

Denmark

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France

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Winter population size: . Gaudard C., Quaintenne G., Dupuy J. (2018) Comptage des Oiseaux d'eau à la mi-janvier en France. Résultats 2018 du comptage Wetlands International. LPO BirdLife France - Service Connaissance, Wetlands International, Ministère de la Transition écologique et solidaire. pp. 24, et Annexes pp. 104, Rochefort.. ; Dubois P.J., Gaudard C. & Quaintenne G. 2018. Plongeons, grèbes et grands échassiers hivernant en France : évolution récente des effectifs. Ornithos 25-4, 185-215
Winter short-term trend: . Quaintenne G. & Gaudard C. (2018) Analyses de tendances oiseaux d'eau recensés en France à la mi-janvier 1980-2017. Rapport technique préalable à la rédaction de la synthèse Wetlands de Gaudard et al. (2018), pp. 53. Ligue Pour la Protection des Oiseaux, BirdLife France - Wetlands International, Rochefort, France.. ; Dubois P.J., Gaudard C. & Quaintenne G. 2018. Plongeons, grèbes et grands échassiers hivernant en France : évolution récente des effectifs. Ornithos 25-4, 185-215

Podiceps nigricollis (Black-necked Grebe)

France

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Georgia

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Germany

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Winter population size: Dachverband Deutscher Avifaunisten e.V. (http://www.dda-web.de)

Winter short-term trend: Dachverband Deutscher Avifaunisten e.V. (http://www.dda-web.de)

Winter long-term trend: Dachverband Deutscher Avifaunisten e.V. (http://www.dda-web.de)

Greece

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Breeding long-term trend: no data available

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Winter long-term trend: no data available

Hungary

Breeding population size: National park directorates' databases (Annual survey of colonially breeding and strictly protected bird species)

Breeding short-term trend: National park directorates' databases (Annual survey of colonially breeding and strictly protected bird species) http://map.mme.hu/maps/map2

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Italy

Winter population size: ISPRA-IWC Database

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Kosovo

Breeding population size: Qenan Maxhuni

Breeding short-term trend: Qenan Maxhuni

Kosovo

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Winter population size: Maxhuni, Q., Bino, T., Xeka, E., Sevo, B., Bejko, E. & Muhaxhiri, J. (2019) First International Waterbird Census (IWC) in Kosovo, MESP/KEPA

Latvia

Breeding population size: Unpublished data for European Breeding Bird Atlas (2013-2017); Expert: Andris Dekants, andris.dekants@lob.lv
Breeding short-term trend: Unpublished data for European Breeding Bird Atlas (2013-2017); Expert: Andris Dekants, andris.dekants@lob.lv
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Lithuania

Breeding population size: Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) 2015-2018. Lietuvos perinčių paukščių atlaso duomenų bazė (Lithuanian Breeding Birds Atlas Database). Vilnius. Ministry of Environment of the Republic of Lithuania. 2012. Status and trends of bird populations (Article 12, Birds Directive 2009/147/EC) National Summary 2008-2012 Lithuania. Ministry of Environment of the Republic of Lithuania. 2016-2018. Leidinio "Lietuvos raudonoji knyga" parengimo paslaugos (Red data book of Lithuania). (Agreement No VPS-2016-104-ES)
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North Macedonia

Breeding population size: unpublished data from the European Breeding Bird Atlas 2
Breeding short-term trend: unpublished data from the European Breeding Bird Atlas 2
Winter population size: unpublished data of the Macedonian Ecological Society
Winter short-term trend: unpublished IWC data of the Macedonian Ecological Society
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Moldova

Breeding population size: Moldova`s contribution for the second European Breeding Bird Atlas (EBBA2)
Breeding short-term trend: SPPN expert opinion (sppn.moldova@gmail.com)
Breeding long-term trend: SPPN expert opinion (sppn.moldova@gmail.com)
Winter population size: International Waterbird Census
Winter short-term trend: SPPN expert opinion (sppn.moldova@gmail.com)
Winter long-term trend: SPPN expert opinion (sppn.moldova@gmail.com)

Montenegro

Breeding population size: Puzovic, S., Simic, D., Saveljić, D., Gergelj, J., Tucakov,M.,Stojnic,N., Hulo, I., Ham, I., Vizi,O., Sciban,M., Ruzic,M., Vucanovic,M., Jovanovic, T. (2004): Birds of Serbia and Montenegro – Size of nesting populations. I trends: 1990-2002. Ciconia 12,
Winter population size: Rubinić,B., Sackl, P. & Gramatikov, M. (2019): Conserving of wild birds in Montenegro. The first inventory of potential Special Protection Areas in Montenegro. Aam Consulting. Budapest xiii + 328 pp.

Netherlands

Breeding population size: Sovon NEM (Sovon, CBS and provincies) and Bird atlas (Sovon 2018)
Breeding short-term trend: NEM (Sovon, RWS, CBS, provincies)
Breeding long-term trend: Sovon
Winter population size: NEM waterbird monitoring scheme (Sovon, RWS, CBS, provincies)
Winter short-term trend: NEM waterbird monitoring scheme (Sovon, RWS, CBS, provincies)
Winter long-term trend: NEM waterbird monitoring scheme (Sovon, RWS, CBS, provincies)

Norway

Breeding population size: (a) Shimmings P. & Øien, I.J. 2015. Bestandsestimater og trender for norske hekkefugler. NOF-rapport 2015-2. (b) Artsobservasjoner www.artsobservasjoner.no
Breeding short-term trend: Artsobservasjoner (www.artobseravsjoner.no)
Breeding long-term trend: Shimmings, P. & Øien, I.J. 2015. Bestandsestimater for norske hekkefugler. NOF Rapport 2-2015. 268 pp.

Poland

Breeding population size: Chodkiewicz T., Kuczyński L., Sikora A., Chylarecki P., Neubauer G., Ławicki Ł., Stawarczyk T. 2015. Ocena liczebności populacji ptaków lęgowych w Polsce w latach 2008–2012. Ornis Polonica 56: 149-189; State Environmental Monitoring / Chief Inspectorate of Environmental Protection (survey: MFGP – Flagship Species Survey); expert assessment
Breeding short-term trend: State Environmental Monitoring / Chief Inspectorate of Environmental Protection (survey: MFGP)
Breeding long-term trend: Tucker G.M., Heath M.F. 1994. Birds in Europe: their conservation status. BirdLife International, Cambridge, UK.; BirdLife International 2004. Birds in Europe: population estimates, trends and conservation status. BirdLife International, Cambridge, UK;

Portugal

Winter population size: Programa Nacional de Monitorização de Aves Aquáticas Invernantes
Winter short-term trend: Programa Nacional de Monitorização de Aves Aquáticas Invernantes
Winter long-term trend: Sousa J (2002b). Tendências populacionais de aves aquáticas. Relatório de estudo integrado no Projecto do Instituto da Conservação da Natureza "Livro Vermelho dos Vertebrados de Portugal - Revisão"/Programa Operacional do Ambiente, não publicado.; Programa Nacional de Monitorização de Aves Aquáticas Invernantes

Romania

Breeding population size: Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) Database
Breeding short-term trend: Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) Database
Breeding long-term trend: Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) Database
Winter population size: International Waterbird Census, Romania, Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database
Winter short-term trend: International Waterbird Census, Romania, Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database
Winter long-term trend: International Waterbird Census, Romania, Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database

Russia

Breeding population size: Voltzit & Kalyakin 2013-2019; Database of the project on Atlas of breeding birds of European Russia
Breeding short-term trend: Kalyakin et al. 2019
Breeding long-term trend: Kalyakin et al. 2019

Serbia

Breeding population size: EBBA2 project; Puzović, S., Radišić, D., Ružić, M., Rajković, D., Radaković, M., Pantović, U., Janković, M., Stojnić, N., Šćiban, M., Tucakov, M., Gergelj, J., Sekulić, G., Agošton, A. & Raković, M. 2015. Birds of Serbia: Breeding Population Estimates and Trends for the Period 2008-2013. Bird protection and study society of Serbia, and Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad.
Breeding short-term trend: EBBA2 project; Puzović, S., Radišić, D., Ružić, M., Rajković, D., Radaković, M., Pantović, U., Janković, M., Stojnić, N., Šćiban, M., Tucakov, M., Gergelj, J., Sekulić, G., Agošton, A. & Raković, M. 2015. Birds of Serbia: Breeding Population Estimates and Trends for the Period 2008-2013. Bird protection and study society of Serbia, and Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad.
Breeding long-term trend: EBBA2 project; Puzović, S., Radišić, D., Ružić, M., Rajković, D., Radaković, M., Pantović, U., Janković, M., Stojnić, N., Šćiban, M., Tucakov, M., Gergelj, J., Sekulić, G., Agošton, A. & Raković, M. 2015. Birds of Serbia: Breeding Population Estimates and Trends for the Period 2008-2013. Bird protection and study society of Serbia, and Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad.
Winter population size: IWC database
Winter short-term trend: IWC database
Winter long-term trend: IWC database; Bioras database http://www.bioras.petnica.rs/home.php

Slovakia

Breeding population size: Coordinatory group for reporting 2019.
Breeding short-term trend: Coordinatory group for reporting 2019, AVES-Symfony Database 2013-2018, KIMS Database 2013-2018.
Breeding long-term trend: Coordinatory group for reporting 2019, AVES-Symfony Database 2013-2018, KIMS Database 2013-2018.

Slovenia

Breeding population size: Mihelič T., Kmecl P., Denac K., Koce U., Vrezec A., Denac D. (eds.) (2019): Atlas ptic Slovenije. Popis gnezdilk 2002–2017. – DOPPS, Ljubljana.
Breeding short-term trend: Mihelič T., Kmecl P., Denac K., Koce U., Vrezec A., Denac D. (eds.) (2019): Atlas ptic Slovenije. Popis gnezdilk 2002–2017. – DOPPS, Ljubljana.
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