

## *Podiceps auritus* (Horned Grebe)

### European Red List of Birds

### Supplementary Material

The European Union (EU27) 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 2013-14. 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 (2015).

#### Contents

Reported national population sizes and trends	p. 2
Trend maps of reported national population data	p. 4
Sources of reported national population data	p. 7
Species factsheet bibliography	p. 11

#### Recommended citation

BirdLife International (2015) European Red List of Birds. Luxembourg: Office for Official Publications of the European Communities.

#### Further information

<http://www.birdlife.org/datazone/info/euroredlist>

<http://www.birdlife.org/europe-and-central-asia/european-red-list-birds-0>

<http://www.iucnredlist.org/initiatives/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](mailto:science@birdlife.org).

*Podiceps auritus* (Horned Grebe)

**Table 1.** Reported national breeding population size and trends in Europe<sup>1</sup>.

Country (or territory) <sup>2</sup>	Population estimate				Short-term population trend <sup>4</sup>				Long-term population trend <sup>4</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	
Estonia	200-300	3	2008-2012	poor	0	0-10	2001-2012	poor	-	20-50	1980-2012	poor	P. a. auritus, North-east Europe (small-billed)
Finland	1,500-3,300	29	2006-2012	good	-	25-67	2001-2012	good	-	29-63	1986-2012	good	P. a. auritus, North-east Europe (small-billed)
Germany	0	<1	2005-2009	good					-	100	1985-2003	medium	P. a. auritus, North-east Europe (small-billed)
Iceland	700	9	2005	good	+	10-29	2006-	good	+	30-50	2005-2011	medium	
Latvia	5-20	<1	2012	medium	?				-	90-98	1994-2012	medium	P. a. auritus, North-east Europe (small-billed)
Lithuania	5-20	<1	2008-2012	medium	+	400-1900	2001-2012	medium	+	400-1900	1980-2012	medium	P. a. auritus, North-east Europe (small-billed)
Norway	750-850	10	2007	medium	-	15-50	2003-2007	poor	F	0	1980-2007	poor	
Russia	≥1,500-	20	2000-2004	poor	?				-	10-40	1980-2012	medium	
Sweden	1,700-2,400	27	2008-2012	good	+	50-100	2001-2012	medium	-	5-35	1980-2012	medium	P. a. auritus, North-east Europe (small-billed)
Sweden	50-100	1	2008-2012	good	+	0-100	2001-2012	poor	+	0-200	1980-2012	medium	P. a. auritus, North-west Europe (large-billed)
Ukraine	0-5	<1	2000	medium	F	10-20	1998-2010	medium	F	20-50	1980-2010	medium	
United Kingdom	30	<1	2006-2010	good	-	47	1996-2008	good	-	56	1980-2008	good	P. a. auritus, North-west Europe (large-billed)
<b>EU27</b>	<b>3,500-6,200</b>	<b>66</b>			<b>Decreasing</b>								
<b>Europe</b>	<b>6,400-9,200</b>	<b>100</b>			<b>Decreasing</b>								

<sup>1</sup> 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>.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>5</sup> Trend directions are reported as: increasing (+); decreasing (-); stable (0); fluctuating (F); or unknown (?).

<sup>6</sup> Trend magnitudes are rounded to the nearest integer.

*Podiceps auritus* (Horned Grebe)

**Table 2.** Reported national wintering population sizes and trends in Europe<sup>1</sup>. 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) <sup>2</sup>	Population estimate				Short-term population trend <sup>4</sup>				Long-term population trend <sup>4</sup>				Subspecific population (where relevant)
	Size (individuals) <sup>3</sup>	Europe (%)	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	Direction <sup>5</sup>	Magnitude (%) <sup>6</sup>	Year(s)	Quality	
Albania	5-25	<1	2002-2012	good	F	30-60	2002-2012	good	-	20-40	1980-2012	poor	
Armenia	Present	<1	2003-2013		?				?				
Austria	1-2	<1	2008-2010	good	0	0	2001-2012	good	0	0	1980-2012	good	
Azerbaijan	10-100	1	1996-2002	medium	?				?				
Bulgaria	0-2	<1	2008-2012	medium	0	0	2000-2012	medium	0	0	1980-2012	medium	
France	382	9	2008-2012	good	F	0	2000-2012	good	F	0	1980-2012	medium	
Georgia	Present	<1	2012		?				?				
Germany	1,100	27	2000-2005	good	+	11-100	2000-2012	medium	0	0	1980-2005	poor	
Iceland	Present	<1	2012		?				?				
Rep. Ireland	2	<1	2004-2009	poor	?				?				
FYRO Macedonia	0-5	<1	2001-2012	medium	0	0	2001-2012	medium	0	0	1980-2012	medium	
Netherlands	66-247	3	2006-2010	good	+	17-316	2000-2011	good	+	548-2131	1981-2011	good	
Norway	500-1,000	17	1994-2003	medium	0	0	2000-2013	medium	?				
Poland	550-700	15	2011-2012	good	F	0	2005-2012	good	?				
Slovenia	0-2	<1	2008-2012	medium	F	0-200	2001-2012	medium	F	0-1000	1980-2012	medium	
Spain	9-29	<1	2008-2010	good	0	0	2001-2012	good	+		1980-2012	medium	
Switzerland	2-14	<1	2008-2012	good	F	0	2001-2012	good	F	0	1980-2012	good	
Turkey	1-10	<1	2012	poor	?				?				
Ukraine	10-30	<1	1998-2009	medium	F	10-30	1998-2009	medium	F	20-40	1980-2009	medium	
United Kingdom	1,100	27	2004-2008	medium	-	6	1999-2010	good	+	64	1993-2010	medium	
<b>EU27</b>	<b>3,200-3,600</b>	<b>80</b>			<b>Fluctuating</b>								
<b>Europe</b>	<b>3,700-4,800</b>	<b>100</b>			<b>Fluctuating</b>								

<sup>1</sup> 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>.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>5</sup> Trend directions are reported as: increasing (+); decreasing (-); stable (0); fluctuating (F); or unknown (?).

<sup>6</sup> 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 ( $\geq 50\%$ )        | ↓ Large decrease ( $\geq 50\%$ ) |
| ↑ Moderate increase (20–49%)            | ↓ Moderate decrease (20–49%)     |
| ↑ Small increase ( $< 20\%$ )           | ↓ Small decrease ( $< 20\%$ )    |
| ↑ Increase of unknown magnitude         | ↓ Decrease of unknown magnitude  |
| ■ Stable or fluctuating                 |                                  |
| □ Unknown                               |                                  |
| ○ Present (no population or trend data) |                                  |
| × Extinct since 1980                    |                                  |

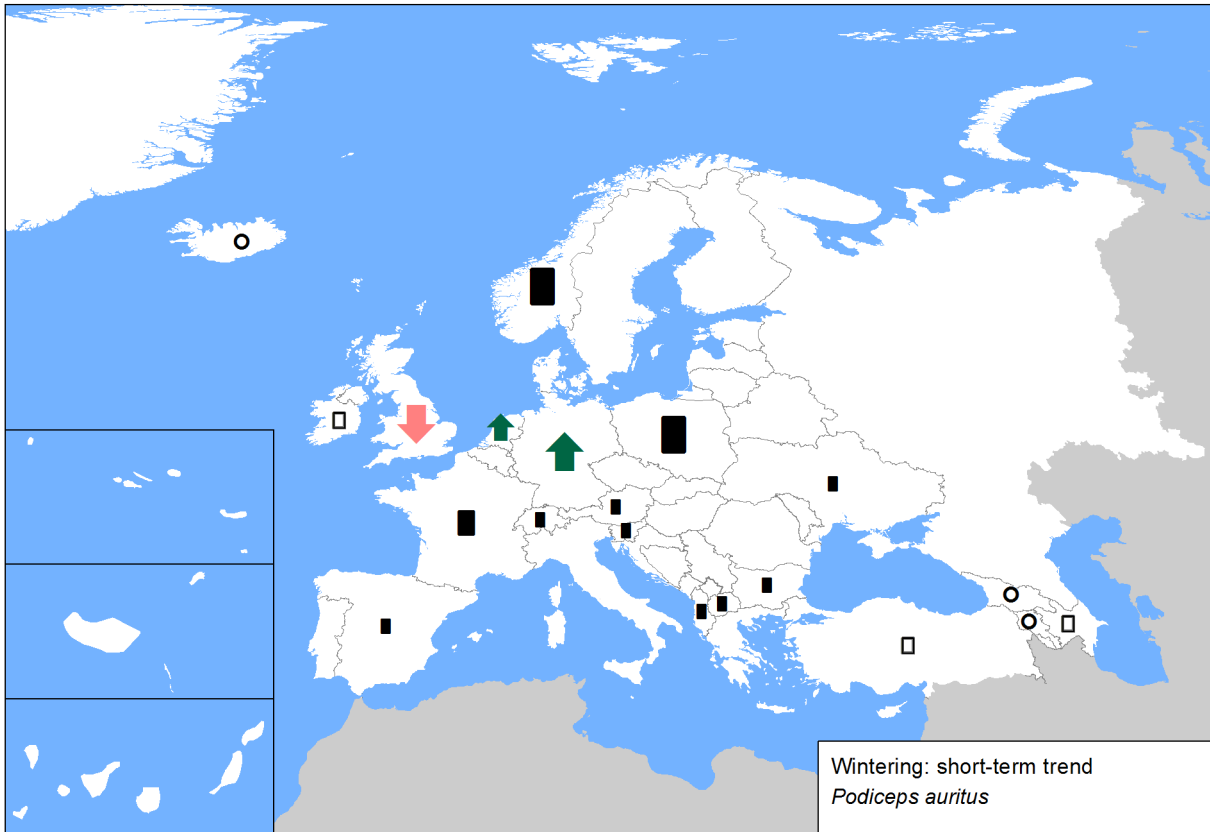
Each symbol, with the exception of Present and Extinct, may occur in up to three different size classes, corresponding to the proportion of the European population occurring in that country.

- ↑ Large:  $\geq 10\%$  of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small:  $< 1\%$  of the European population

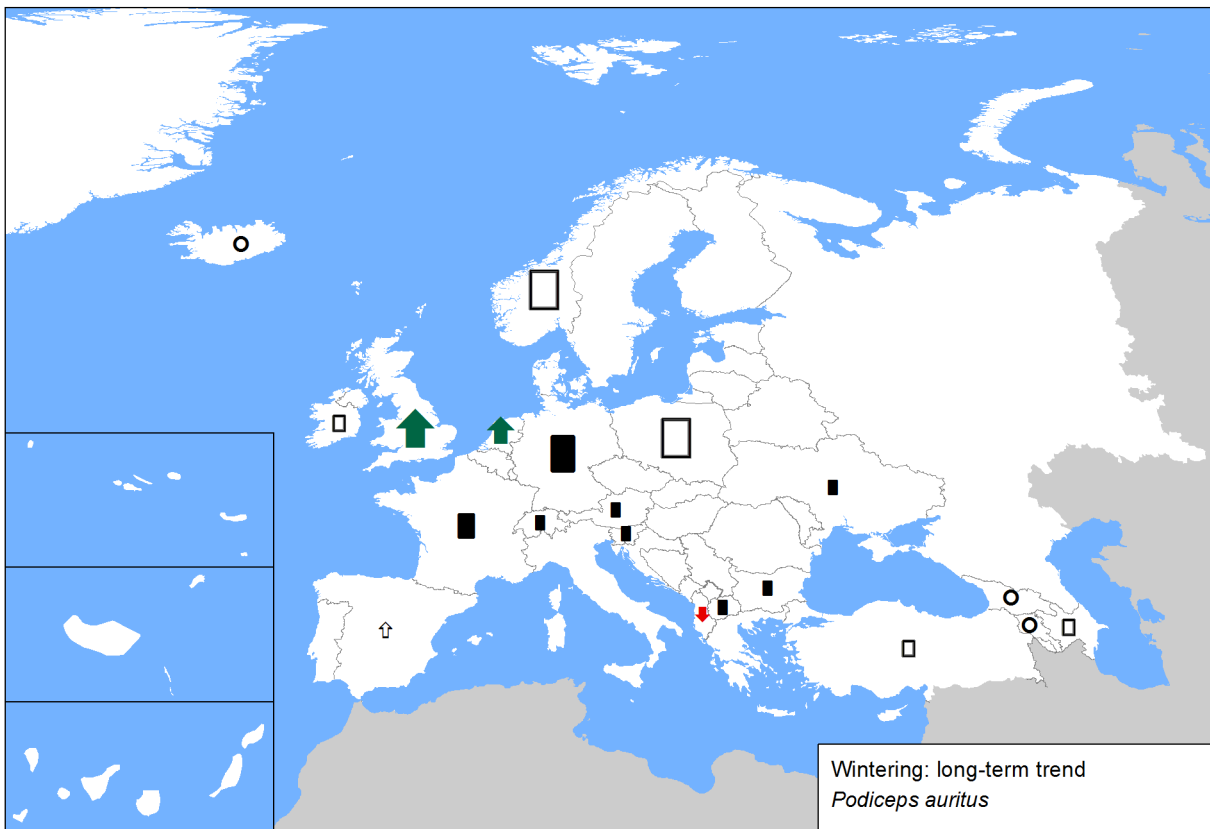
The designation of geographical entities and the presentation of the material do not imply the expression of any opinion whatsoever on the part of IUCN or BirdLife International concerning the legal status of any country, territory or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.



**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

<b>Winter population size:</b> Bino pers. obs.
<b>Winter short-term trend:</b> Bino pers. obs.
<b>Winter long-term trend:</b> Bino pers. obs.

### Armenia

#### Austria: *P. a. auritus*, North-east Europe (small-billed)

<b>Winter population size:</b> BirdLife Austria, unpublished IWC data
<b>Winter short-term trend:</b> BirdLife Austria, estimate on the basis of available unpublished and published trend data
<b>Winter long-term trend:</b> BirdLife Austria, estimate on the basis of available unpublished and published trend data

### Azerbaijan

<b>Winter population size:</b> BirdLife International 2004
--

#### Bulgaria: *P. a. auritus*, North-east Europe (small-billed)

<b>Winter population size:</b> BSPB Bird Database
<b>Winter short-term trend:</b> 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
<b>Winter long-term trend:</b> 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

#### Estonia: *P. a. auritus*, North-east Europe (small-billed)

<b>Breeding population size:</b> Elts, J., Leito, A., Leivits, A., Luigujõe, L., Mägi, E., Nellis, Rein, Nellis, Renno, Ots, M., Pehlak, H. 2013. Status and numbers of Estonian birds, 2008–2012. <i>Hirundo</i> 26(2): 80-112. URL: <a href="http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf">http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf</a>
<b>Breeding short-term trend:</b> Elts, J., Leito, A., Leivits, A., Luigujõe, L., Mägi, E., Nellis, Rein, Nellis, Renno, Ots, M., Pehlak, H. 2013. Status and numbers of Estonian birds, 2008–2012. <i>Hirundo</i> 26(2): 80-112. URL: <a href="http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf">http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf</a>
<b>Breeding long-term trend:</b> Elts, J., Leito, A., Leivits, A., Luigujõe, L., Mägi, E., Nellis, Rein, Nellis, Renno, Ots, M., Pehlak, H. 2013. Status and numbers of Estonian birds, 2008–2012. <i>Hirundo</i> 26(2): 80-112. URL: <a href="http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf">http://www.eoy.ee/hirundo/file_download/149/Elts_et_al_2013_2.pdf</a>

#### Finland: *P. a. auritus*, North-east Europe (small-billed)

<b>Breeding population size:</b> Pöysä, H., Rintala, J., Lehikoinen, A., & Väisänen, R. A. (2013). The importance of hunting pressure, habitat preference and life history for population trends of breeding waterbirds in Finland. <i>Eur J Wild Res</i> , 59(2), 245–256. doi:10.1007/s10344-012-0673-8
<b>Breeding short-term trend:</b> Pöysä, H., Rintala, J., Lehikoinen, A., & Väisänen, R. A. (2013). The importance of hunting pressure, habitat preference and life history for population trends of breeding waterbirds in Finland. <i>Eur J Wild Res</i> , 59(2), 245–256. doi:10.1007/s10344-012-0673-8
<b>Breeding long-term trend:</b> Pöysä, H., Rintala, J., Lehikoinen, A., & Väisänen, R. A. (2013). The importance of hunting pressure, habitat preference and life history for population trends of breeding waterbirds in Finland. <i>Eur J Wild Res</i> , 59(2), 245–256. doi:10.1007/s10344-012-0673-8 Lehikoinen, A., Pöysä, H., Rintala, J. & Väisänen, R.A. 2013: Population changes of 20 waterbird species in Finnish lakes in 1986–2012. – <i>Linnut-vuosikirja</i> 2012: 95–101. (in Finnish with English summary)

#### France: *P. a. auritus*, North-east Europe (small-billed)

<b>Winter population size:</b> LPO - Wetlands International 2012 Base de données des dénombrements d'oiseaux d'eau « Wetlands International » 1980-2012 réalisés à la mi-janvier, LPO - BirdLife France, Rochefort
<b>Winter short-term trend:</b> YEATMAN-BERTHELOT D. assistée de JARRY G. 1991 Atlas des oiseaux de France en hiver, Société Ornithologique de France, 575 p. LPO - Wetlands International 2012 Base de données des dénombrements d'oiseaux d'eau « Wetlands International » 1980-2012 réalisés à la mi-janvier, LPO - BirdLife France, Rochefort
<b>Winter long-term trend:</b> YEATMAN-BERTHELOT D. assistée de JARRY G. 1991 Atlas des oiseaux de France en hiver, Société Ornithologique de France, 575 p. LPO - Wetlands International 2012 Base de données des dénombrements d'oiseaux d'eau « Wetlands International » 1980-2012 réalisés à la mi-janvier, LPO - BirdLife France, Rochefort

### Georgia

<b>Winter population size:</b> BirdLife International 2004
--

#### Germany: *P. a. auritus*, North-east Europe (small-billed)

<b>Breeding population size:</b> Gedeon, K., C. Grüneberg, A. Mitschke & C. Sudfeldt (in Vorb.): Atlas Deutscher Brutvogelarten. SVD & DDA, Münster.
<b>Breeding short-term trend:</b> Last breeding in 2003
<b>Breeding long-term trend:</b> Dachverband Deutscher Avifaunisten e.V.
<b>Winter population size:</b> Wahl, J., J. Bellebaum, J. Blew, S. Garthe, K. Günther & T. Heinicke (in Vorb.): Rastende Wasservogel in Deutschland 2000-2005: Bestandsschätzungen und Schwellenwerte für Rastgebiete nationaler Bedeutung. Vogelwelt.
<b>Winter short-term trend:</b> Seabirds at Sea-Programm
<b>Winter long-term trend:</b> Hüppop, O., H.-G. Bauer, H. Haupt, T. Ryslavý, P. Südbeck & J. Wahl (2013): Rote Liste wandernder Vogelarten Deutschlands, Fassung Januar 2013. Ber. Vogelschutz Vol. 49/50.

## *Podiceps auritus* (Horned Grebe)

### Iceland

**Breeding population size:** Þorkell Lindberg Þórarinnsson, Ævar Petersen, Árnir Einarsson, Halldór Wp Stefánsson, Yann Kolbeinsson, Róbert A. Stefánsson, Böðvar Þórisson og Þórdís V. Bragadóttir. 2011. Dreifing og fjöldi flórgoða á Íslandi 2004-2005. Bliki 31: 31-35.

**Breeding short-term trend:** Þorkell Lindberg Þórarinnsson, Ævar Petersen, Árnir Einarsson, Halldór Wp Stefánsson, Yann Kolbeinsson, Róbert A. Stefánsson, Böðvar Þórisson og Þórdís V. Bragadóttir. 2011. Dreifing og fjöldi flórgoða á Íslandi 2004-2005. Bliki 31: 31-35.

**Breeding long-term trend:** Þorkell Lindberg Þórarinnsson, Ævar Petersen, Árnir Einarsson, Halldór Wp Stefánsson, Yann Kolbeinsson, Róbert A. Stefánsson, Böðvar Þórisson og Þórdís V. Bragadóttir. 2011. Dreifing og fjöldi flórgoða á Íslandi 2004-2005. Bliki 31: 31-35.

### Republic of Ireland: *P. a. auritus*, North-west Europe (large-billed)

**Winter population size:** Boland, H. & Crowe, O. (2012) Irish Wetland Bird Survey: Waterbird Status and Distribution 2001/02 - 2009/09. BirdWatch Ireland, Kilcoole, Co. Wicklow.

**Winter short-term trend:** Boland, H. & Crowe, O. (2012) Irish Wetland Bird Survey: Waterbird Status and Distribution 2001/02 - 2009/09. BirdWatch Ireland, Kilcoole, Co. Wicklow.

**Winter long-term trend:** Boland, H. & Crowe, O. (2012) Irish Wetland Bird Survey: Waterbird Status and Distribution 2001/02 - 2009/09. BirdWatch Ireland, Kilcoole, Co. Wicklow. Sheppard, R. (1993). Ireland's Wetland Wealth. Irish Wildbird Conservancy.

### Latvia: *P. a. auritus*, North-east Europe (small-billed)

**Breeding population size:** www.latvijaspusti.lv

**Breeding long-term trend:** Strazds M., Priednieks J., Vaverins G. 1994. Latvijas putnu skaits. – Putni daba, 4: 3–18. www.latvijaspusti.lv

### Lithuania: *P. a. auritus*, North-east Europe (small-billed)

**Breeding population size:** Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt)

**Breeding short-term trend:** Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“, 288 p. Raudonikis L. 2004. Lithuania. In: Birds in Europe: population estimates, trends, and conservation status. BirdLife International, BirdLife Conservation Series No12, Cambridge, UK. Rašomavičius, V. (red.) 2007. Lietuvos raudonoji knyga. Kaunas: „Lututė“, 800 p. (Red Data Book of Lithuania, 2007)

**Breeding long-term trend:** Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) BirdLife International/European Bird Census Council. 2000. European bird populations: estimates and trends. Cambridge, UK: BirdLife International (BirdLife Conservation Series No. 10). Kurlavičius, P. (ed.) 2006. Lietuvos perinčių paukščių atlasas. Kaunas: „Lututė“, 256 p. Rašomavičius, V. (red.) 2007. Lietuvos raudonoji knyga. Kaunas: „Lututė“, 800 p. (Red Data Book of Lithuania, 2007)

### The Former Yugoslav Republic of Macedonia

**Winter population size:** Wetlands International database and unpublished data of the Macedonian Ecological Society

**Winter short-term trend:** Wetlands International database and unpublished data of the Macedonian Ecological Society

**Winter long-term trend:** Wetlands International database and unpublished data of the Macedonian Ecological Society

### Netherlands: *P. a. auritus*, North-east Europe (small-billed)

**Winter population size:** Hornman et al 2012

**Winter short-term trend:** NEM (Sovon, RWS, CBS), Hornman et al 2013

**Winter long-term trend:** NEM (Sovon, RWS, CBS), Hornman et al 2013

### Norway

**Breeding population size:** Øien, I.J., Aarvak, T., & Reinsborg, T. 2008. Horndykkeren i Norge - truet art på frammarsj? Vår Fuglefauna 31: 21-27.

**Breeding short-term trend:** Øien, I.J., Aarvak, T., & Reinsborg, T. 2008. Horndykkeren i Norge - truet art på frammarsj? Vår Fuglefauna 31: 21-27.

**Breeding long-term trend:** 1) Øien, I.J., Aarvak, T., & Reinsborg, T. 2008. Horndykkeren i Norge - truet art på frammarsj? Vår Fuglefauna 31: 21-27. 2) Gjershaug, J.O., Thingstad, P.G., Eldøy, S., & Byrkjedal, S. (eds.). 1994. Norsk Fugleatlas. Norsk Ornitologisk Forening, Klæbu.

**Winter population size:** Svorkmo-Lundberg, T., Bakken, V., Helberg, M., Mørk, K., Røer, J.E. & Sæbø, S. 2006. Norsk VinterfuglAtlas. Fuglenes utbredelse, bestandsstørrelse og økologi vinterstid. Norsk Ornitologisk Forening, Trondheim. 496 pp.

**Winter short-term trend:** Svorkmo-Lundberg, T., Bakken, V., Helberg, M., Mørk, K., Røer, J.E. & Sæbø, S. 2006. Norsk VinterfuglAtlas. Fuglenes utbredelse, bestandsstørrelse og økologi vinterstid. Norsk Ornitologisk Forening, Trondheim. 496 pp.

### Poland: *P. a. auritus*, North-east Europe (small-billed)

**Winter population size:** MZPM: Chodkiewicz T., Kuczyński L., Sikora A., Ławicki L., Chylarecki P., Neubauer G., Meissner W., Rohde Z. 2013. Opracowanie raportu dla Komisji Europejskiej z wdrażania Dyrektywy Ptasiej w Polsce w zakresie Monitoringu Ptaków Polski w Państwowym Monitoringu Środowiska. Sprawozdanie dla Głównego Inspektoratu Ochrony Środowiska. OTOP, Marki; Meissner W., Chodkiewicz T., Bzoma Sz., Brewka B., Woźniak B. 2012. Monitoring ptaków zimujących. Sprawozdanie dla GIOŚ. OTOP (source: [http://monitoringptakow.gios.gov.pl/raporty?file=files/pliki/raporty\\_faza3/RaportMPP3\\_etap8\\_zad2%264\\_zima2012.pdf](http://monitoringptakow.gios.gov.pl/raporty?file=files/pliki/raporty_faza3/RaportMPP3_etap8_zad2%264_zima2012.pdf)); Chodkiewicz T., Neubauer G., Meissner W., Sikora A., Chylarecki P., Woźniak B., Bzoma S., Brewka B., Rubacha S., Kus K., Rohde Z., Cenian Z., Wieloch M., Zielińska M., Zieliński P., Kajtoch Ł., Szalański P., Betleja J. 2012. Monitoring populacji ptaków Polski w latach 2010–2012. Biuletyn Monitoringu Przyrody 9: 1–44 (source: [http://monitoringptakow.gios.gov.pl/publikacje?file=files/pliki/publikacje/Biuletyn9\\_2012.pdf](http://monitoringptakow.gios.gov.pl/publikacje?file=files/pliki/publikacje/Biuletyn9_2012.pdf))

**Winter short-term trend:** Meissner W. 2007. Ptaki morskie w strefie polskich wód terytorialnych – czy potrafimy wskazać obszary najbardziej i najmniej konfliktowe? II Konferencja „Rynek energetyki wiatrowej w Polsce”. 20-21.03.2007, Warszawa.

### Russia

**Breeding population size:** Krivenko V.G. Vinogradov V.G. 2008. Birds of the Water Environment and Rhythms of Climate of the Northern Eurasia. Moscow: 588 p. (in Russian). Mischenko A.L. (ed.) 2004. Estimation of numbers and trends for birds of the European part of Russia («Birds in Europe-II»). Moscow, RBCU (in Russian). Borodin O.V., Smirnova S.L., unpublished. spinus73@mail.ru

**Breeding short-term trend:** Avilova K.V. Prevalence and trends of six waterfowl species from the orders Gaviiformes, Podicipediformes and Pelecaniformes in central regions of Russia in 1980–2010. In press. Eryomkin G.S. 2008. Slavonian Grebe. P. 43. In: Kachan A.S. (editor-chairman). Red Data Book of Moscow Region. Moscow (in Russian). Borodin O.V., Smirnova S.L., expert opinion. spinus73@mail.ru Shepel A.I., unpublished. shai53@mail.ru



## *Podiceps auritus* (Horned Grebe)

### Russia

**Breeding long-term trend:** Mischenko A.L. (ed.) 2004. Estimation of numbers and trends for birds of the European part of Russia («Birds in Europe-II»). Moscow, RBCU (in Russian). Eryomkin G.S. 2008. Slavonian Grebe. P. 43. In: Kachan A.S. (editor-chairman). Red Data Book of Moscow Region. Moscow (in Russian). Mischenko A.L., Sukhanova O.V. 2008. Rare birds in the fishponds of Moscow Region: trends during 20 years. - Rare bird species of Non-Chernozem Centre of Russia. Proc. of IIIth Conference. Moscow: 76-81 (in Russian). Sergeev M.A. 2008. Slavonian Grebe. Red Data Book of Vladimir Region. Vladimir, Transit-x: 321. Borodin O.V., Smirnova S.L., expert opinion. spinus73@mail.ru

### Slovenia: *P. a. auritus*, North-east Europe (small-billed)

**Winter population size:** <http://www.natura2000.gov.si/index.php?id=211> Božič, L. (2008): Monitoring populacij izbranih vrst ptic – zimsko štetje vodnih ptic 2002-2008. Končno poročilo. Društvo za opazovanje in preučevanje ptic Slovenije, Ljubljana. 167 str. Božič, L. (2009): Monitoring populacij izbranih vrst ptic – Rezultati zimskega štetja vodnih ptic 2009, rezultati popisov preleta ujed v jesenski sezoni 2008. 2. vmesno poročilo. Društvo za opazovanje in preučevanje ptic Slovenije, Ljubljana. 35 str. Božič, L. (2010): Monitoring populacij izbranih ciljnih vrst ptic – zimsko štetje vodnih ptic 2010. Končno poročilo. Društvo za opazovanje in preučevanje ptic Slovenije, Ljubljana. 28 str. Božič, L. (2011): Monitoring populacij izbranih ciljnih vrst ptic – zimsko štetje vodnih ptic 2011. Končno poročilo. Društvo za opazovanje in preučevanje ptic Slovenije, Ljubljana. 28 str. BOŽIČ, L. (2008A): Rezultati januarskega štetja vodnih ptic leta 2008 v Sloveniji. – *Acrocephalus* 29 (136): 39–49. BOŽIČ, L. (2008B): Rezultati januarskega štetja vodnih ptic leta 2009 v Sloveniji. – *Acrocephalus* 29 (138/139): 169–179. BOŽIČ, L. (2010): Rezultati januarskega štetja vodnih ptic leta 2010 v Sloveniji. – *Acrocephalus* 31 (145/146): 131–141. BOŽIČ, L. (2011): Rezultati januarskega štetja vodnih ptic leta 2011 v Sloveniji. – *Acrocephalus* 32 (148/149): 67–77. BOŽIČ, L. (2012): Rezultati januarskega štetja vodnih ptic leta 2012 v Sloveniji. – *Acrocephalus* 33 (152/153): 109–119.

**Winter short-term trend:** DOPPS

**Winter long-term trend:** SOVINC, A. (1994): Zimski ornitološki atlas Slovenije. – Tehniška založba Slovenije, Ljubljana. ŠKORNIK I. (2012): Favnišnični in ekološki pregled ptic Sečoveljskih solin. – Soline predelava soli, Seča.

### Spain: *P. a. auritus*, North-east Europe (small-billed)

**Winter population size:** SEO/BirdLife (2012). Atlas de las aves en invierno en España 2007-2010. Ministerio de Agricultura, Alimentación y Medio Ambiente-SEO/BirdLife. Madrid. 816 pp. [http://www.magrama.gob.es/es/biodiversidad/publicaciones/atlas\\_aves\\_invierno\\_tcm7-291664.pdf](http://www.magrama.gob.es/es/biodiversidad/publicaciones/atlas_aves_invierno_tcm7-291664.pdf)

**Winter short-term trend:** SEO/BirdLife (2012). Atlas de las aves en invierno en España 2007-2010. Ministerio de Agricultura, Alimentación y Medio Ambiente-SEO/BirdLife. Madrid. 816 pp. [http://www.magrama.gob.es/es/biodiversidad/publicaciones/atlas\\_aves\\_invierno\\_tcm7-291664.pdf](http://www.magrama.gob.es/es/biodiversidad/publicaciones/atlas_aves_invierno_tcm7-291664.pdf) Información obtenida a partir de la Base de Datos del Inventario de especies terrestres. Censo de Aves Acuáticas Invernales (Ministerio de Agricultura, Alimentación y Medio Ambiente). [http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/censos\\_aves\\_acuaticas\\_invernales.aspx](http://www.magrama.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/censos_aves_acuaticas_invernales.aspx) - SEO/BirdLife (2012). Atlas de las aves en invierno en España 2007-2010. Ministerio de Agricultura, Alimentación y Medio Ambiente-SEO/BirdLife. Madrid. 816 pp.

**Winter long-term trend:** De Juana, A. (1993). Observaciones homologadas de aves raras en España y Portugal. Informe 1991. *Ardeola* 40 (2): 177-192.

### Sweden: *P. a. auritus*, North-east Europe (small-billed)

**Breeding population size:** Ottosson, U., Ottvall, R., Elmberg, J., Green, M., Gustafsson, R., Haas, F., Holmqvist, N., Lindström, Å., Nilsson, L., Svensson, M., Svensson, S. & Tjernberg, M. 2012. Fåglarna i Sverige - antal och förekomst. Sveriges Ornitologiska Förening, Halmstad.

**Breeding short-term trend:** Swedish Bird Survey (Svensk Fågeltaxering), Lund University.

**Breeding long-term trend:** Swedish Bird Survey (Svensk Fågeltaxering), Lund University.

### Sweden: *P. a. auritus*, North-west Europe (large-billed)

**Breeding population size:** Ottosson, U., Ottvall, R., Elmberg, J., Green, M., Gustafsson, R., Haas, F., Holmqvist, N., Lindström, Å., Nilsson, L., Svensson, M., Svensson, S. & Tjernberg, M. 2012. Fåglarna i Sverige - antal och förekomst. Sveriges Ornitologiska Förening, Halmstad. Norevik (in prep). Riksinventering av svarthakedopping 2011 (preliminary).

**Breeding short-term trend:** Swedish Bird Survey (Svensk Fågeltaxering), Lund University.

**Breeding long-term trend:** Swedish Bird Survey (Svensk Fågeltaxering), Lund University.

### Switzerland

**Winter population size:** Swiss Ornithological Institute. Winter waterbird census (January). <http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html> Min Max of total count

**Winter short-term trend:** Swiss Ornithological Institute. Winter waterbird census (January). <http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html>

**Winter long-term trend:** Swiss Ornithological Institute. Winter waterbird census (January). <http://www.vogelwarte.ch/monitoring-wintering-waterbirds.html>

### Turkey

**Winter population size:** Kurt, B., Ozbagdatli, N., Bozkurt, A.K., Arslangundoğdu, Z. ve Gursoy, A. 2002. Türkiye Sulakalanları Kış Ortası Sucusu Sayımı, Doğal Hayatı Koruma Derneği, İstanbul, Türkiye. Çağlayan, E., Kılıç, D.T., Per, E. ve Gem, E. 2005. Türkiye Kış Ortası Sucusu Sayımları 2005. Doğa Derneği, Ankara, Turkey Suseven, B., Onmus, O. ve İsfendiyaroğlu, S. 2006. Kış Ortası Sucusu Sayımı (KOSK) Raporu, Doğa Derneği, Ankara Onmus, O. 2007. Türkiye Kış Ortası Sucusu Sayımları 2007, Doğa Derneği, Ankara Akarsu, F. ve Balkız, Ö. 2010. Türkiye Kış Ortası Sucusu Sayımları 2008-2009-2010, Doğa Derneği, Ankara Erciyas Yavuz, K., Kartal E. 2011. Türkiye Kış Ortası Sucusu Sayımları, 2011, Ornitoloji Araştırma Merkezi, Samsun Erciyas Yavuz, K., İsfendiyaroğlu S. 2013. 2012 Türkiye Kış Ortası Sucusu Sayımları, Doğa Derneği, Ankara Birdlife International (2004) Birds in Europe: population estimates, trends and conservation status, Cambridge UK: Birdlife International (Birdlife Conservation series no: 12) [www.kusbank.org](http://www.kusbank.org)

### Ukraine

**Breeding population size:** 1. Hagemajjer W.J.M., Blair M.J. The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance. Poyser. - London. 1997. 903 p. 2. Численность и размещение гнездящихся околоводных птиц в водно-болотных угодьях Азово-Черноморского побережья Украины. Под ред. В.Д. Сиохин / Wetland International Киев. 2000. 476 с. 3. Горбань І. Оцінка чисельності гніздових птахів України. Вісник Львівського університету. Серія біологічна. Випуск 34. 2003. с. 147 – 158. 4. Experts: I. Gorban

**Breeding short-term trend:** 1. Directory of Azov – Black Sea Coastal Wetlands / Ed. By G. Marushevsky – Kyiv, 2003, Wetland International, 235 p. 2. Directory of Ukraine's Wetlands / Ed. By G. Marushevsky & I. Zarak. – Kyiv, 2006, Wetland International Black Sea Programme. - 312 с. 3. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p.

## *Podiceps auritus* (Horned Grebe)

### Ukraine

**Breeding long-term trend:** 1. Tucker G.M., Heath M.F. Birds in Europe: their conservation status. - Cambridge. U.K. Bird Life Conservation Series № 3. 1994. 600 p. 2. Hagemajjer W.J.M., Blair M.J. The EBCC Atlas of European Breeding Birds: Their Distribution and Abundance. Poyser. - London. 1997. 903 p. 3. Горбань І. Оцінка чисельності гніздових птахів України. Вісник Львівського університету. Серія біологічна. Випуск 34. 2003. с. 147 – 158. 4. Directory of Azov – Black Sea Coastal Wetlands / Ed. By G. Marushevsky – Kyiv, 2003, Wetland International, 235 p. 5. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 6. Directory of Ukraine's Wetlands / Ed. By G. Marushevsky & I. Zaruk. – Kyiv, 2006, Wetland International Black Sea Programme. - 312 с.

**Winter population size:** 1. Русев І.Т., Корзюков А.И., Сацьк С.Ф. Мониторинг зимующих птиц в Северо-Западном Причерноморье в 1999 г. Сб. Зимние учеты птиц на Азово-Черноморском побережье Украины, Алушта-Киев, 1999, выпуск 2, С.46-60. 2. Heath M.F., Evans M.I. Important birds areas in Europe. Priority sites for conservation. // Southern Europe. BirdLife International. - Cambridge. Vol.2., 2000. P. 691-724. 3. European birds populations; Estimates and trends Compiled by M. Heath, C. Borggreve, N. Peet, W. Hagemajjer/ BirdLife International/EBCC. 2000. Cambridge, UK: BirdLife Conservation Series N10, 160 p. 4. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 5. Горбань І. Розміри популяцій зимуючих птахів України. Вісник Львівського університету. Серія біологічна. Вип. 35. 2004. С.23-39. 6. Directory of Ukraine's Wetlands / Ed. By G. Marushevsky & I. Zaruk. – Kyiv, 2006, Wetland International Black Sea Programme. - 312 с. 7. Бескаравайный М.М. Птицы морских берегов Южного Крыма. Симферополь. «Н.Орианда», 2008. 160 с. 8. Kostyushyn V., Andryushchenko Yu., Goradze I., Abuladze A., Mamuchadze J., Erciyas K. Wintering Waterbird Census in the Azov – Black Sea Coastal Wetlands of Ukraine, Georgia, and Turkey. – Wetlands International Black Sea Program. – 2011. – 130 pp.

**Winter short-term trend:** 1. Русев І.Т., Корзюков А.И., Сацьк С.Ф. Мониторинг зимующих птиц в Северо-Западном Причерноморье в 1999 г. Сб. Зимние учеты птиц на Азово-Черноморском побережье Украины, Алушта-Киев, 1999, выпуск 2, С.46-60. 2. Heath M.F., Evans M.I. Important birds areas in Europe. Priority sites for conservation. // Southern Europe. BirdLife International. - Cambridge. Vol.2., 2000. P. 691-724. 3. European birds populations; Estimates and trends Compiled by M. Heath, C. Borggreve, N. Peet, W. Hagemajjer/ BirdLife International/EBCC. 2000. Cambridge, UK: BirdLife Conservation Series N10, 160 p. 4. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 5. Горбань І. Розміри популяцій зимуючих птахів України. Вісник Львівського університету. Серія біологічна. Вип. 35. 2004. С.23-39. 6. Directory of Ukraine's Wetlands / Ed. By G. Marushevsky & I. Zaruk. – Kyiv, 2006, Wetland International Black Sea Programme. - 312 с. 7. Бескаравайный М.М. Птицы морских берегов Южного Крыма. Симферополь. «Н.Орианда», 2008. 160 с. 8. Kostyushyn V., Andryushchenko Yu., Goradze I., Abuladze A., Mamuchadze J., Erciyas K. Wintering Waterbird Census in the Azov – Black Sea Coastal Wetlands of Ukraine, Georgia, and Turkey. – Wetlands International Black Sea Program. – 2011. – 130 pp.

**Winter long-term trend:** 1. Русев І.Т., Корзюков А.И., Сацьк С.Ф. Мониторинг зимующих птиц в Северо-Западном Причерноморье в 1999 г. Сб. Зимние учеты птиц на Азово-Черноморском побережье Украины, Алушта-Киев, 1999, выпуск 2, С.46-60. 2. Heath M.F., Evans M.I. Important birds areas in Europe. Priority sites for conservation. // Southern Europe. BirdLife International. - Cambridge. Vol.2., 2000. P. 691-724. 3. European birds populations; Estimates and trends Compiled by M. Heath, C. Borggreve, N. Peet, W. Hagemajjer/ BirdLife International/EBCC. 2000. Cambridge, UK: BirdLife Conservation Series N10, 160 p. 4. Birds in Europe: Population Estimates, Trends and Conservation Status. BirdLife Conservation Series 12; 2004. 374 p. 5. Горбань І. Розміри популяцій зимуючих птахів України. Вісник Львівського університету. Серія біологічна. Вип. 35. 2004. С.23-39. 6. Directory of Ukraine's Wetlands / Ed. By G. Marushevsky & I. Zaruk. – Kyiv, 2006, Wetland International Black Sea Programme. - 312 с. 7. Бескаравайный М.М. Птицы морских берегов Южного Крыма. Симферополь. «Н.Орианда», 2008. 160 с. 8. Kostyushyn V., Andryushchenko Yu., Goradze I., Abuladze A., Mamuchadze J., Erciyas K. Wintering Waterbird Census in the Azov – Black Sea Coastal Wetlands of Ukraine, Georgia, and Turkey. – Wetlands International Black Sea Program. – 2011. – 130 pp.

### United Kingdom: *P. a. auritus*, North-west Europe (large-billed)

**Breeding population size:** Holling, M. & the Rare Breeding Birds Panel. 2012. Rare breeding birds in the United Kingdom in 2010. British Birds 105: 352–416.

**Breeding short-term trend:** RBBP; Holling, M. & the Rare Breeding Birds Panel. 2012. Rare breeding birds in the United Kingdom in 2010. British Birds 105: 352–416.

**Breeding long-term trend:** Holling, M. & the Rare Breeding Birds Panel. 2012. Rare breeding birds in the United Kingdom in 2010. British Birds 105: 352–416.

**Winter population size:** Musgrove, A.J., Austin, G.E., Hearn, R.D., Holt, C.A., Stroud, D.A. & Wotton, S.R. 2011. Overwinter population estimates of British waterbirds. British Birds 104: 364–397.

**Winter short-term trend:** Holt, C.A., Austin, G.E., Calbrade, N.A., Mellan, H.J., Hearn, R.D., Stroud, D.A., Wotton, S.R. & Musgrove, A.J. (2012). Waterbirds in the UK 2010/11: The Wetland Bird Survey. BTO/RSPB/JNCC, Thetford. 183 pp.

**Winter long-term trend:** Holt, C.A., Austin, G.E., Calbrade, N.A., Mellan, H.J., Hearn, R.D., Stroud, D.A., Wotton, S.R. & Musgrove, A.J. (2012). Waterbirds in the UK 2010/11: The Wetland Bird Survey. BTO/RSPB/JNCC, Thetford. 183 pp.

## Bibliography

Fjeldsa, J. 2004. *The grebes*. Oxford University Press, Oxford, U.K.

Konter, A. 2001. *Grebes of our world*. Lynx Edicions, Barcelona.

Llimona, F., del Hoyo, J., Christie, D.A., Jutglar, F., Garcia, E.F.J. and Kirwan, G.M. 2014. Horned Grebe (*Podiceps auritus*). In: del Hoyo, J., Elliott, A., Sargatal, J., Christie, D.A. and de Juana, E. (eds.) 2014. *Handbook of the Birds of the World Alive*. Lynx Edicions, Barcelona. (retrieved from <http://www.hbw.com/node/52490> on 9 February 2015).

O'Donnel, C. and Fjelds , J. (compilers). 1997. *Grebes - Status Survey and Conservation Action Plan*. IUCN/SSC Grebe Specialist Group. IUCN, Gland, Switzerland and Cambridge, UK. vii + 59 pp.

Ogilvie, M. and Rose, C. 2003. *Grebes of the World*. Bruce Coleman, Uxbridge.

Snow, D.W. and Perrins, C.M. 1998. *The Birds of the Western Palearctic vol. 1: Non-Passerines*. Oxford University Press, Oxford.