THE IUCN RED LIST
OF THREATENED SPECIES™

# *Haematopus ostralegus* (Eurasian Oystercatcher)

## 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 | 2–6 | <1 | 2007-2018 | complete | - | -60 to -40 | 2007-2018 | complete | - | -80 to -60 | 1980-2018 | expert | |
| Belarus | 350–450 | <1 | 2010-2018 | partial | + | 0 to 30 | 2012-2019 | expert | + | 33 | 1980-2019 | expert | |
| Belgium | 1200–1500 | <1 | 2013-2018 | partial | - | -31 to -14 | 2008-2018 | complete | + | 344 to 456 | 1973-2018 | partial | |
| Bulgaria | 30–70 | <1 | 2013-2018 | partial | ? | | 2001-2018 | deficient | ? | | 1980-2018 | expert | |
| Denmark | 7500–7600 | 2 | 2017 | partial | - | -73 to -4 | 2006-2017 | complete | - | -59 to -21 | 1982-2017 | complete | |
| DK: Faroe Is | 10000 | 3 | 2014 | expert | ? | | | | ? | | | | |
| Estonia | 2000–3000 | <1 | 2013-2017 | expert | - | -9 to -8 | 2006-2017 | expert | - | -49 to -39 | 1980-2017 | expert | |
| Finland | 2500–4700 | 1 | 2013-2018 | partial | 0 | -19 to 12 | 2007-2018 | partial | + | 32 to 95 | 1980-2018 | partial | |
| France | 1100–1300 | <1 | 2010-2011 | complete | ? | | 2011-2018 | deficient | + | 40 to 60 | 1983-2011 | expert | |
| Germany | 21000–27000 | 8 | 2016-2016 | expert | - | -18 | 2004-2016 | expert | 0 | -13 | 1980-2016 | expert | |
| Greece | 40–100 | <1 | 2015 | partial | + | | 2007-2018 | partial | + | | 1980-2018 | partial | |
| Iceland | 13000 | 4 | 2016 | partial | - | | 2006-2012 | partial | - | | 1988-2012 | partial | |
| Rep. Ireland | 2300–3100 | <1 | 2008-2011 | expert | ? | | 2000-2011 | deficient | ? | | 1980-2011 | deficient | |
| Italy | 270–390 | <1 | 2013-2018 | expert | + | 110 to 120 | 2009-2013 | expert | + | 1000 to 1200 | 1993-2018 | expert | |
| Latvia | 45–80 | <1 | 2013-2018 | partial | - | -39 to -34 | 2000-2018 | partial | 0 | -2 to 6 | 1980-2017 | partial | |
| Lithuania | 15–20 | <1 | 2013-2018 | partial | 0 | | 2013-2018 | partial | + | 1500 to 2000 | 1980-2018 | partial | |
| Montenegro | 0–1 | <1 | 2013-2018 | complete | - | | 2007-2018 | expert | ? | | | | |
| Netherlands | 35000–43000 | 13 | 2013-2015 | complete | - | -41 to -35 | 2006-2017 | complete | - | -75 to -72 | 1984-2017 | complete | |
| Norway | 50000–100000 | 24 | 2013-2018 | partial | - | -5 to -1 | 2013-2018 | partial | - | -5 to -1 | 1980-2018 | partial | |
| Poland | 20–35 | <1 | 2013-2016 | complete | ? | | 2007-2018 | deficient | + | 300 to 340 | 1980-2018 | complete | |
| Romania | 50–150 | <1 | 2013-2018 | expert | ? | | 2007-2018 | deficient | + | 2500 to 15000 | 1980-2018 | expert | |
| Russia | 14000–24000 | 6 | 2008-2018 | partial | + | 20 to 29 | 2008-2018 | expert | ? | | 1980-2018 | deficient | |
| Spain | 49–60 | <1 | 2007-2010 | complete | ? | 2 to 11 | 1998-2018 | complete | - | -41 to -38 | 1980-2018 | partial | |
| Sweden | 6600–9400 | 3 | 2013-2018 | partial | - | -41 to -16 | 2007-2018 | partial | - | -60 to -37 | 1980-2018 | partial | |
| Turkey | 300–500 | <1 | 2002-2012 | expert | ? | | 2008-2019 | deficient | ? | | 1980-2013 | deficient | |
| Ukraine | 600–1000 | <1 | 2014-2018 | partial | F | 10 to 30 | 2007-2018 | partial | F | 20 to 40 | 1980-2018 | partial | |
| United Kingdom | 95200–95300 | 32 | 2016 | complete | - | -13 | 2004-2016 | complete | 0 | 10 | 1980-2016 | complete | |
| EU28 | 175000–197000 | 62 | | | | | | | | | | | |
| **Europe** | **263000–346000** | **100** | | | | | | | | | | | |

*Haematopus ostralegus* (Eurasian Oystercatcher)

**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] | |

[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 | 0–10 | <1 | 2007-2018 | complete | 0 | -50 to 42 | 2007-2018 | complete | - | -47 to 0 | 1980-2018 | complete | |
| Belgium | 1900–5800 | <1 | 2013-2018 | complete | ? | -32 to 51 | 2007-2018 | complete | 0 | -22 to 32 | 1992-2018 | complete | |
| Denmark | 32000–32100 | 4 | 2016-2016 | complete | F | | 2006-2016 | complete | F | | 1980-2016 | complete | |
| DK: Faroe Is | 10–50 | <1 | 1992 | | ? | | | | ? | | | | |
| France | 41500–49100 | 6 | 2013-2018 | complete | 0 | 0 | 2007-2018 | complete | 0 | 0 | 1980-2018 | complete | |
| Georgia | 3–10 | <1 | 2017-2018 | partial | ? | | | | ? | | | | |
| Germany | 195000 | 24 | 2011-2016 | complete | - | -23 to -13 | 2003-2016 | complete | - | -65 to -30 | 1980-2016 | complete | |
| Greece | 250–400 | <1 | 2015 | partial | ? | | 2007-2018 | deficient | ? | | 1980-2018 | deficient | |
| Iceland | 13000 | 2 | 2017 | complete | 0 | | 2002-2014 | partial | F | | 1980-2014 | partial | |
| Rep. Ireland | 42800–42900 | 5 | 2011-2016 | complete | - | | 2004-2016 | complete | - | | 1987-2016 | partial | |
| Netherlands | 166000–186000 | 22 | 2013-2017 | complete | - | -27 to -10 | 2006-2017 | complete | - | -58 to -48 | 1981-2017 | complete | |
| Norway | 250–350 | <1 | 1994-2018 | partial | 0 | | 2013-2018 | deficient | 0 | | 1980-2018 | partial | |
| Portugal | 250–20200 | <1 | 2013-2018 | complete | ? | -35 to 9 | 2001-2012 | complete | - | | 1988-2018 | partial | |
| Spain | 890–3400 | <1 | 2013-2018 | complete | ? | -28 to -2 | 2007-2018 | partial | 0 | | 1980-2018 | partial | |
| Turkey | 21–70 | <1 | 2013-2019 | complete | ? | | 2008-2019 | deficient | ? | | 1980-2019 | deficient | |
| Ukraine | 5–15 | <1 | 2014-2017 | partial | ? | | 2007-2018 | partial | ? | | 1980-2018 | partial | |
| United Kingdom | 303000–304000 | 37 | 2012-2016 | complete | 0 | -6 | 2005-2016 | complete | 0 | -5 | 1980-2016 | complete | |
| EU28 | 784000–838000 | 98 | | | | | | | | | | | |
| **Europe** | **797000–852000** | **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.
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[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.

# 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.

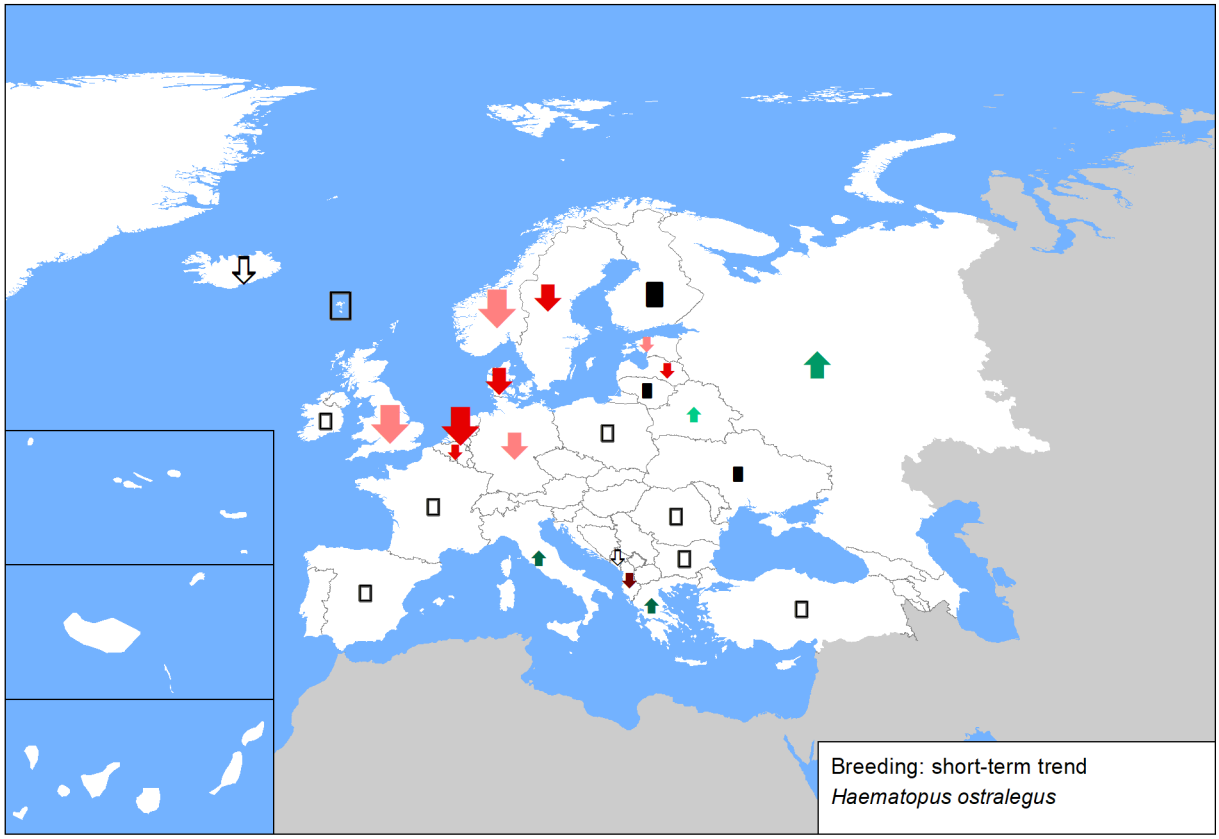



**Figure 2.** Breeding population sizes and long-term trends across Europe.

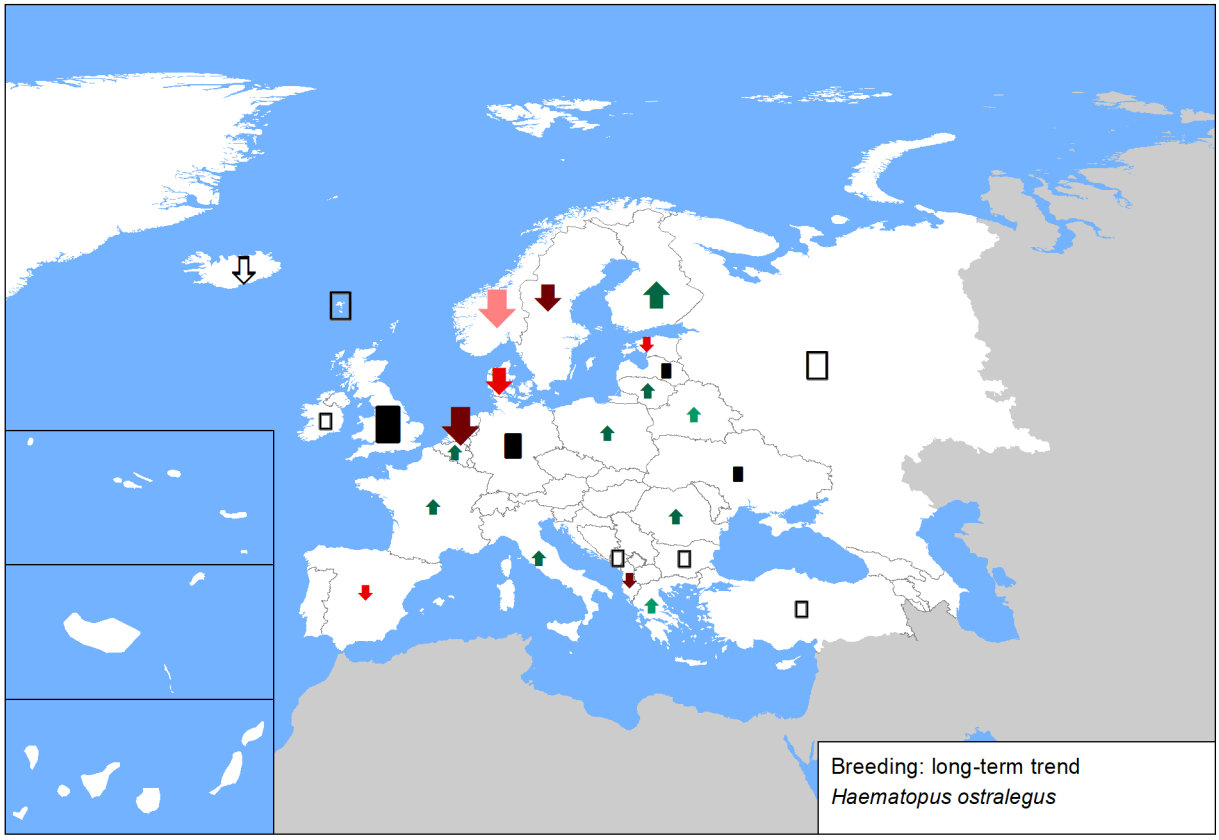


**Figure 3.** Reported wintering population sizes and short-term trends across Europe. Note that some countries within the species' wintering range did not report any data.

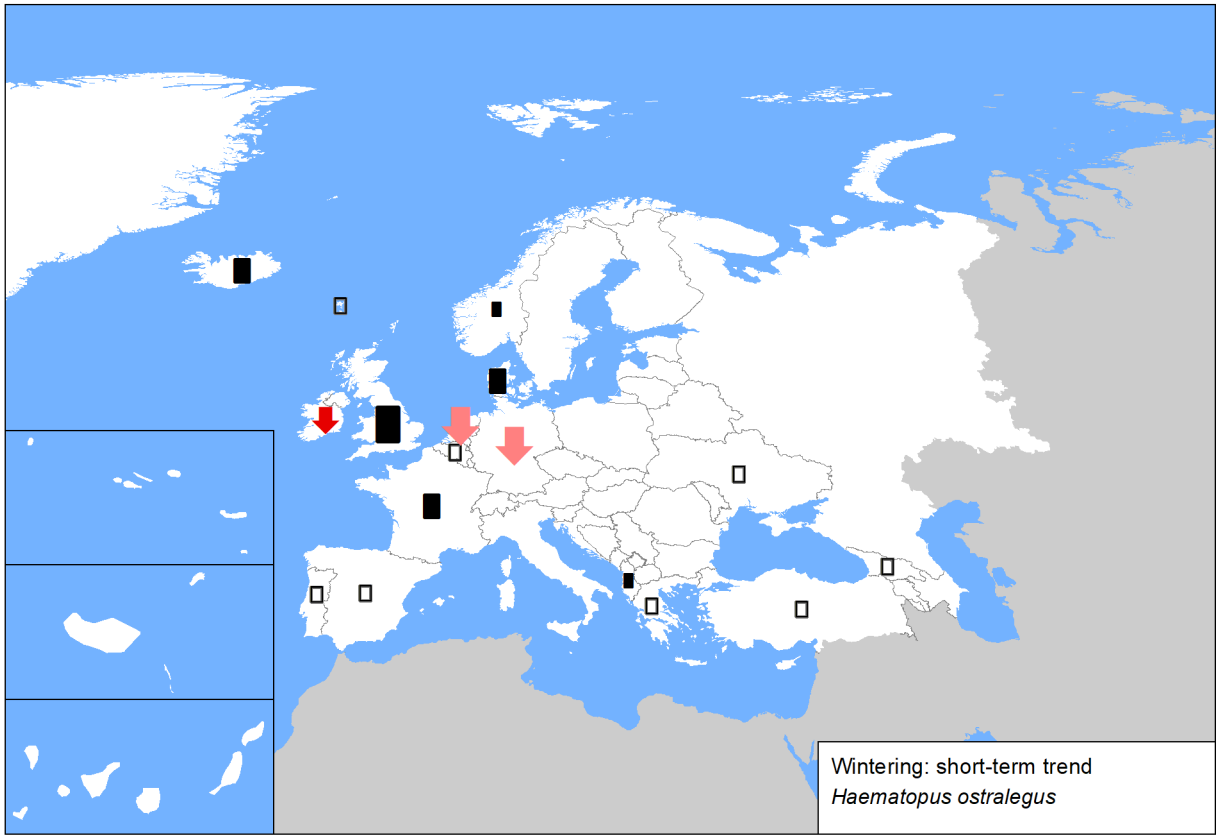
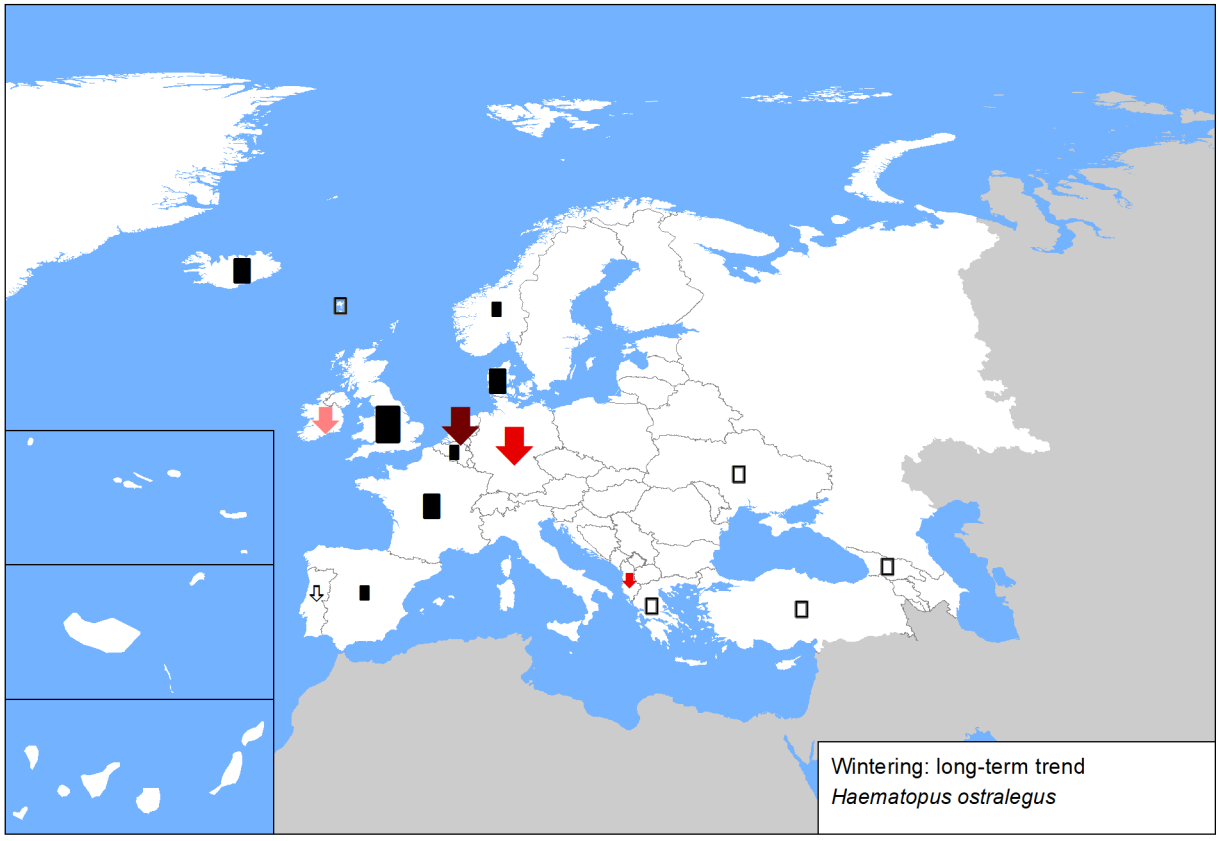



**Figure 4.** Reported wintering population sizes and long-term trends across Europe. Note that some countries within the species' wintering range did not report any data.



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| |
|---|
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| **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 |

## Belarus

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| **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:** Red data book of the Republic of Belarus. – 1981. – Minsk. – 288 p. |

## Belgium

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|---|
| **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. |
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| **Winter population size:** Waterbird database INBO |
| **Winter short-term trend:** Waterbird database INBO & Aves |
| **Winter long-term trend:** Waterbird database INBO & Aves |

## Bulgaria

| |
|---|
| **Breeding population size:** Shurulinkov P., Daskalova G., Michov S., Koev V. (2016) The distribution, numbers, and breeding of terns and waders on the sand islands along the Bulgarian-Romanian section of the Danube. NwjZ Art#e151604 (vol.12, no.1, pp.065-077); National Art. 12 reporting database 2013-2018; PETROV, T., Z. BOEV, S. DALAKCHIEVA. Eurasian Oystercatcher Haematopus ostralegus. Red Data Book of Bulgaria,. e-version: http://e-ecodb.bas.bg/rdb/en/vol2/Haostral.html last access: August 2019 IANKOV, P. (ed.) 2007. Atlas of Breeding Birds in Bulgaria. BSPB Conservation Series, Book 10. Sofia. 679 pp. NANKINOV, D., A. DUTSOV, B. NIKOLOV, B. BORISSOV, G. STOYANOV, G. GRADEV, D. GEORGIEV, D. POPOV, D. DOMUSCHIEV, D. KIROV, E. TILOVA, I. NIKOLOV, I. IVANOV, K. DICHEV, K. POPOV, N. KARAIVANOV, N. TODOROV, P. SHURULINKOV, R. STANCHEV, R. ALEKSOV, R.TSONEV, S. DALAKTCHIEVA, S. IVANOV, S. MARIN, S. STAJKOV, S. NIKOLOV & H. NIKOLOV. 2004. Breeding totals of the ornithofauna in Bulgaria, 2004. Green Balkans, Plovdiv. 32 pp. NANKINOV, D., S. SIMEONOV, T. MICHEV, B. IVANOV. 1997. The Fauna of Bulgaria. Vol. 26. AVES. Part II. BAS Press, Pensoft. Sofia. 428 pp. |
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## Denmark

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*Haematopus ostralegus* (Eurasian Oystercatcher)

## Denmark

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**Breeding long-term trend:** Estonian Working Group on Bird Status and Numbers

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## France

**Breeding population size:** Deceuninck . Huitrie-pie. in Issa N. & Muller Y. coord. (2015) Atlas des oiseaux de France Métropiltaine. Nidification et présence hivernale. LPO / SEOF / MNHN. Delachaux et Nieslé, Paris, 1408 p., Delachaux et Niestlé ; . Sturbois A. et Février Y. Huîtrier-pie in GEOCA (2014). Oiseaux des Côtes-d'Armor. Statut, distribution, tendances. Saint-Brieuc, 416 p.. ; 40. Yésou P., Bernard F., Marquis J., Nisser J., Triplet P. 2001. Reproduction de l'Huîtrier-pie, Haematopus ostralegus, sur l'île de Béniguet, Finistère. Alauda 69, 69503-512

**Winter population size:** Triplet P. et Mahéo R. 2000. L'Huîtrier-pie Haematopus ostralegus hivernant en France : Evolution des effectifs et modalités d'occupation de l'espace. . Alauda, 68109-122 ; . Limicoles séjournant en France. Wetlands International, , ONCFS ; 31. Van de Pol M., Atkinson P., Blew J., Crowe O., Delany S., Duriez O., Ens B. J., Hälterlein B., Hötker H., Laursen K., Oosterbeek K., Petersen A., Thorup O., Tjørve K., Triplet P., Yésou P. 2014. A global assessment of the conservation status of the nominate subspecies of Eurasian Oystercatcher Haematopus ostralegus ostralegus. International Wader Studies , 2047-61 ; Duriez O. et Triplet P. 2014. Changement d'habitat et dynamique de l'Huîtrier pie Haematopus ostralegus. Ornithos, 21265-274

**Winter short-term trend:** Duriez O. et Triplet P 2014. Changement d'habitat et dynamique de l'Huîtrier pie Haematopus ostralegus. . Ornithos, 21265-274

**Winter long-term trend:** . 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..

## Georgia

**Winter population size:** Zurab Gurgenidze Zurab.Gurgenidze@Sabuko.ge; observation.org

## Germany

**Breeding population size:** Gerlach et al. (in Vorb.): Vögel in Deutschland – 2019. Dachverband Deutscher Avifaunisten, Bundesamt für Naturschutz und Länderarbeitsgemeinschaft der Vogelschutzwarten, Münster.

**Breeding short-term trend:** Gerlach et al. (in Vorb.): Vögel in Deutschland – 2019. Dachverband Deutscher Avifaunisten, Bundesamt für Naturschutz und Länderarbeitsgemeinschaft der Vogelschutzwarten, Münster.

**Breeding long-term trend:** Gerlach et al. (in Vorb.): Vögel in Deutschland – 2019. Dachverband Deutscher Avifaunisten, Bundesamt für Naturschutz und Länderarbeitsgemeinschaft der Vogelschutzwarten, Münster.

**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

**Breeding population size:** 1) BirdLife International (2004) Birds in Europe : Popilation estimates, trends and conservation status, Cambridge, UK: Birdlife International (Birdlife Conservation Series No. 12). 2) Natura Viewer (http://natura2000.eea.europa.eu/#). 3) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Papazoglou, C. & Barov, B. 2009. Προσδιορισμός συμβατών δραστηριοτήτων σε σχέση με τα είδη χαρακτηρισμού των Ζωνών Ειδικής Προστασίας της ορνιθοπανίδας. Παραδοτέο 8. Οδηγός οικολογικών απαιτήσεων, απειλών και ενδεδειγμένων μέτρων για τα είδη χαρακτηρισμού. 4) Πορτόλου, Δ., Μπουρδάκης, Σ., Βλαχος, Χ., Καστρίτης, Θ. & Δημαλέξης, Τ. (επιμ.). 2009. Οι Σημαντικές περιοχές για τα Πουλιά της Ελλάδας: Περιοχές Προτεραιότητας για τη Διατήρηση της Βιοποικιλότητας. Ελληνική Ορνιθολογική Εταιρεία, Αθήνα. 5) Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μποντζώρλος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπαλης Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «"Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ" Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη.

*Haematopus ostralegus* (Eurasian Oystercatcher)

## Greece

**Breeding short-term trend:** 1) BirdLife International (2004) Birds in Europe : Population estimates, trends and conservation status, Cambridge, UK: Birdlife International (Birdlife Conservation Series No. 12). 2) Natura Viewer (http://natura2000.eea.europa.eu/#). 3) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Papazoglou, C. & Barov, B. 2009. Προσδιορισμός συμβατών δραστηριοτήτων σε σχέση με τα είδη χαρακτηρισμού των Ζωνών Ειδικής Προστασίας της ορνιθοπανίδας. Παραδοτέο 8. Οδηγός οικολογικών απαιτήσεων, απειλών και ενδεδειγμένων μέτρων για τα είδη χαρακτηρισμού. 4) Πορτόλου, Δ., Μπουρδάκης, Σ., Βλαχος, Χ., Καστρίτης, Θ. & Δημαλέξης, Τ. (επιμ.). 2009. Οι Σημαντικές περιοχές για τα Πουλιά της Ελλάδας: Περιοχές Προτεραιότητας για τη Διατήρηση της Βιοποικιλότητας. Ελληνική Ορνιθολογική Εταιρεία, Αθήνα. 5) Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μποντζώρλος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπαλης Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «"Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ" Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη.

**Breeding long-term trend:** 1) Handrinos, G., & Akriotis, T., (1997) The birds of Greece. C. Helm, A & C Black, London. 2) BirdLife International (2004) Birds in Europe : Population estimates, trends and conservation status, Cambridge, UK: Birdlife International (Birdlife Conservation Series No. 12). 3) Natura Viewer (http://natura2000.eea.europa.eu/#). 4) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Λ., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Papazoglou, C. & Barov, B. 2009. Προσδιορισμός συμβατών δραστηριοτήτων σε σχέση με τα είδη χαρακτηρισμού των Ζωνών Ειδικής Προστασίας της ορνιθοπανίδας. Παραδοτέο 8. Οδηγός οικολογικών απαιτήσεων, απειλών και ενδεδειγμένων μέτρων για τα είδη χαρακτηρισμού. 5) Πορτόλου, Δ., Μπουρδάκης, Σ., Βλαχος, Χ., Καστρίτης, Θ. & Δημαλέξης, Τ. (επιμ.). 2009. Οι Σημαντικές περιοχές για τα Πουλιά της Ελλάδας: Περιοχές Προτεραιότητας για τη Διατήρηση της Βιοποικιλότητας. Ελληνική Ορνιθολογική Εταιρεία, Αθήνα. 6) Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μποντζώρλος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπαλης Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «"Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ" Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη.

**Winter population size:** 1) Natura Viewer (http://natura2000.eea.europa.eu/#). 2) Βλάχος Χ., Μπίρτσας Π., Θωμαΐδης Χ., Χατζηνίκος Ε., Μποντζώρλος Β., Μπραζιώτης Σ., Κόντος Κ., Βλαχάκη Δ., Δεδουσοπούλου Ε., Κιούσης Δ., Ξένος Α., Στεφάνου Λ.Μ., Κασάμπαλης Δ., και Μελικώκη Κ. (Συντονιστές έκδοσης). 2015. Γ' Φάση της Μελέτης 9 «Εποπτεία και Αξιολόγηση της Κατάστασης Διατήρησης Ειδών Ορνιθοπανίδας στην Ελλάδα» ΥΠΑΠΕΝ, Αθήνα, Σύμπραξη Γραφείων Μελετών «"Φ.ΦΑΣΟΥΛΑΣ-Ν.ΜΑΝΤΖΙΟΣ" Ε.Ε. – ΡΟΔΟΥΛΑ ΚΩΝΣΤΑΝΤΙΝΙΔΟΥ ΤΟΥ ΓΕΩΡΓΙΟΥ – "ΑΘ.ΤΖΑΚΟΠΟΥΛΟΣ ΚΑΙ ΣΙΑ" Ε.Ε.», Θεσσαλονίκη.

**Winter short-term trend:** no data available

**Winter long-term trend:** no data available

## Iceland

**Breeding population size:** Kristinn Haukur Skarphéðinsson, Borgný Katrínardóttir, Guðmundur A. Guðmundsson og Svenja N.V. Auhage 2016. Mikilvæg fuglasvæði á Íslandi. Fjölrit Náttúrufræðistofnunar Nr. 55. 295 s. rafræn útgáfa leiðrétt í nóvember 2017. http://utgafa.ni.is/fjolrit/Fjolrit_55.pdf.

**Breeding short-term trend:** van Roomen M., S. Nagy, R. Foppen, T. Dodman, G. Citegetse og A. Ndiaye 2015. Status of coastal waterbird populations in the East Atlantic Flyway. With special attention to flyway populations making use of the Wadden Sea. Leeuwarden, Hollandi: Programme Rich Wadden Sea; Nijmegen, Hollandi: Sovon; Wageningen, Hollandi: Wetlands International; Cambridge, Englandi: BirdLife International og Wilhelmshaven, Þýskalandi: Common Wadden Sea Secretariat. http://www.waddensea-secretariat.org/sites/default/files/downloads/status_coastal_birds_eaf_2014_1.pdf

**Breeding long-term trend:** van Roomen M., S. Nagy, R. Foppen, T. Dodman, G. Citegetse og A. Ndiaye 2015. Status of coastal waterbird populations in the East Atlantic Flyway. With special attention to flyway populations making use of the Wadden Sea. Leeuwarden, Hollandi: Programme Rich Wadden Sea; Nijmegen, Hollandi: Sovon; Wageningen, Hollandi: Wetlands International; Cambridge, Englandi: BirdLife International og Wilhelmshaven, Þýskalandi: Common Wadden Sea Secretariat. http://www.waddensea-secretariat.org/sites/default/files/downloads/status_coastal_birds_eaf_2014_1.pdf

**Winter population size:** Böðvar Þórisson, Verónica Méndez, José A. Alves, Jennifer A. Gill, Kristinn H. Skarphéðinsson, Svenja N.V. Auhage, Sölvi R. Vignisson, Guðmundur Ö. Benediktsson, Brynjúlfur Brynjólfsson, Cristian Gallo, Hafdís Sturlaugsdóttir, Páll Leifsson & Tómas Grétar Gunnarsson (2018) Population size of Oystercatchers Haematopus ostralegus wintering in Iceland, Bird Study, 65:2, 274-278, DOI: 10.1080/00063657.2018.1478797

**Winter short-term trend:** Icelandic Institute of Natural History. Mid-winter bird counts, https://www.ni.is/greinar/vetrarfuglatalningar-nidurstodur; Icelandic Institute of Natural History, unpubl.data.

**Winter long-term trend:** Icelandic Institute of Natural History. Mid-winter bird counts, https://www.ni.is/greinar/vetrarfuglatalningar-nidurstodur; Icelandic Institute of Natural History, unpubl.data.

## Republic of Ireland

**Breeding population size:** Balmer, D., Gillings, S., Caffrey, B., Swan, B., Downie, I. & Fuller, R. (2013) Bird Atlas 2007-11 The breeding and wintering birds of Britain and Ireland. British Trust for Ornithology. Gibbons D.W., Reid J.B. & Chapman R.A. (1993) The New Atlas of Breeding Birds in Britain and Ireland 1988-1991. Poyser, London. Sharrock, J.T.R. (1976) The Atlas of Breeding Birds in Britain and Ireland. T. & AD Poyser.

**Breeding short-term trend:** Balmer, D., Gillings, S., Caffrey, B., Swan, B., Downie, I. & Fuller, R. (2013) Bird Atlas 2007-11 The breeding and wintering birds of Britain and Ireland. British Trust for Ornithology. Gibbons D.W., Reid J.B. & Chapman R.A. (1993) The New Atlas of Breeding Birds in Britain and Ireland 1988-1991. Poyser, London.

**Breeding long-term trend:** Balmer, D., Gillings, S., Caffrey, B., Swan, B., Downie, I. & Fuller, R. (2013) Bird Atlas 2007-11 The breeding and wintering birds of Britain and Ireland. British Trust for Ornithology. Sharrock, J.T.R. (1976) The Atlas of Breeding Birds in Britain and Ireland. T. & AD Poyser.

**Winter population size:** Burke, B., Lewis, L. J., Fitzgerald, N., Frost, T., Austin, G. & Tierney, T. D. (2018) Estimates of waterbird numbers wintering in Ireland, 2011/12 – 2015/16. Irish Birds 11, 1-12.

**Winter short-term trend:** Lewis, L. J., Burke, B., Fitzgerald, N., Tierney, T. D. & Kelly, S. (2019) Irish Wetland Bird Survey: Waterbird Status and Distribution 2009/10-2015/16. Irish Wildlife Manuals, No. 106. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland.

**Winter long-term trend:** Lewis, L. J., Burke, B., Fitzgerald, N., Tierney, T. D. & Kelly, S. (2019) Irish Wetland Bird Survey: Waterbird Status and Distribution 2009/10-2015/16. Irish Wildlife Manuals, No. 106. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland.

## Italy

**Breeding population size:** Valle R. G., Scarton F., Effectiveness, efficienzy, and safety of censusing eurasian Oystercatchers Haematopus ostralegus by unmanned aircraft. Marine Ornithology 47 (2019): 87-93. - Scarton F., 2017. Le specie di interesse conservazionistico nidificanti

**Breeding short-term trend:** Valle & Scarton 2019. Marine Ornithology 47 (2019): 87-93. - Scarton F., 2017 in: Campostrini et al. (Eds.), 2017. Il controllo ambientale della costruzione del MOSE. 10 anni di monitoraggi tra mare e laguna di Venezia 2004-2015: 67-86.

**Breeding long-term trend:** Brichetti P., Meschini E., 1993. Stima delle popolazioni di uccelli nidificanti. In Meschini E., Frugis S.,1993. Atlante degli uccelli nidificanti in Italia. Suppl. Ric. Biol. Selvaggina, 20, 1-345.

## 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

**Breeding long-term trend:** Priednieks J., Strazds M., Strazds A., Petrins A. 1989. Latvian Breeding Bird Atlas 1980-1984. Riga: Zinatne Unpublished data for European Breeding Bird Atlas (2013-2017); Expert: Andris Dekants, andris.dekants@lob.lv

## 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)

**Breeding short-term trend:** 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)

**Breeding long-term trend:** Logminas, V. (ed.). 1991. Lietuvos fauna: paukščiai. Vilnius: „Mokslas“. Kurlavičius, P. (ed.) 2006. Lietuvos perinčių paukščių atlasas. Kaunas: „Lututė“. Expert working group of the Lithuanian Ornithological Society (lod@birdlife.lt) BirdLife International/European Bird Cencus Council. 2000. European bird populations: estimates and trends. Cambridge, UK: BirdLife International (BirdLife Conservation Series No. 10). Raudonikis L. 2004. Important Bird Areas of the European Union Importance in Lithuania. Lithuanian Ornithological Society & Institute of Ecology of Vilnius University. Lutute, Vilnius. Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“. 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. 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. 2016-2018. Leidinio "Lietuvos raudonoji knyga" parengimo paslaugos (Red data book of Lithuania). (Agreement No VPS-2016-104-ES)

## Montenegro

**Breeding population size:** Sackl, P. et all (2018): Unpub.data

## Netherlands

**Breeding population size:** Sovon Bird atlas (Sovon 2018)

**Breeding short-term trend:** NEM (Sovon, RWS, CBS, provincies)

**Breeding long-term trend:** NEM (Sovon, RWS, CBS, provincies)

**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:** Shimmings P. & Øien, I.J. 2015. Bestandsestimater og trender for norske hekkefugler. NOF-rapport 2015-2.

**Breeding short-term trend:** Heggøy, O. 2018. Hvor hekker tjelden i Norge? Vår Fuglefauna 41: 178-187.

**Breeding long-term trend:** Heggøy, O. 2018. Hvor hekker tjelden i Norge? Vår Fuglefauna 41: 178-187.

**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:** Artsobservasjoner www.artsobservasjoner.no

**Winter long-term trend:** Artsobservasjoner www.artsobservasjoner.no

## Poland

**Breeding population size:** Stawarczyk T., Cofta T., Kajzer Z., Lontkowski J., Sikora A. 2017. Rzadkie Ptaki Polski. Studio B&W Wojciech Janecki, Sosnowiec

**Breeding short-term trend:** Chief Inspectorate of Environmental Protection & Polish Society for the Protection of Birds (OTOP) / BirdLife Poland

**Breeding long-term trend:** Stawarczyk T., Cofta T., Kajzer Z., Lontkowski J., Sikora A. 2017. Rzadkie Ptaki Polski. Studio B&W Wojciech Janecki, Sosnowiec; Tomiałojć L., Stawarczyk T. 2003. Awifauna Polski: rozmieszczenie, liczebność i zmiany. PTPP "pro Natura";

## 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

## Russia

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| **Breeding population size:** Voltzit & Kalyakin 2013-2019; Database of the project on Atlas of breeding birds of European Russia |
| **Breeding short-term trend:** Sarychev in press; Sviridova 2019 |

## Spain

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