

## ***Larus argentatus* (European Herring Gull)**

### **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. 3
Sources of reported national population data	p. 5
Species factsheet bibliography	p. 8

#### **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).

*Larus argentatus* (European Herring Gull)

**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	
Belarus	700-1,000	<1	2012-2013	medium	+	100	2001-2012	medium	+	2700-3900	1982-2012	medium	
Belgium	2,037-2,857	<1	2008-2012	good	+	24-119	2000-2012	good	+	20270-285600	1973-2012	good	
Denmark	65,000	9	2011	medium	+	25-50	1999-2011	good	+	100-1000	1980-2011	good	
DK: Faroe Is	1,500	<1	1981	medium	?				?				
DK: Greenland	5-50	<1	2000-2012	poor	0	0	2000-2012	poor	+	100-1000	1980-2012	poor	
Estonia	20,000-30,000	3	2008-2012	medium	-	20-50	2001-2012	medium	+	20-50	1980-2012	medium	
Finland	25,000-35,000	4	2006-2010	medium	-	9-21	2001-2012	good	-	7-18	1980-2012	good	
France	53,050-55,875	7	2009-2012	good	-	31	1998-2012	good	F	0	1978-2012	good	
Germany	29,000-36,000	4	2005-2009	good	-	31-100	1998-2009	medium	0	0	1985-2009	medium	
Iceland	5,000-10,000	1	1990	poor	?				?				
Rep. Ireland	2,319	<1	2012	poor	-	58	2002-2012	poor	-	92	1987-2012	poor	
Latvia	2,000-2,500	<1	2012	medium	+	34	2001-2008	poor	+	233-355	1980-2012	medium	
Lithuania	300-400	<1	2008-2012	good	+	2900-3900	2001-2012	good	+	15000-30000	1982-2012	good	
Netherlands	43,000-60,000	7	2009-2011	good	-	18-34	2002-2011	good	-	44-45	1980-2011	good	
Norway	233,000	31	2013	medium	F	0	2003-2013	good	F	0	1974-2013	good	
NO: Svalbard	5	<1	2004-2013	poor	?				?				
Poland	2,700-3,000	<1	2007-2012	medium	+	100-125	2003-2012	medium	+	550-650	1980-2012	medium	
Russia	30,000-70,000	6	2000-2008	poor	F	0	2000-2012	poor	F	0	1980-2012	poor	
Sweden	40,000-70,000	7	2008-2012	medium	-	10-36	2001-2012	good	-	70-76	1980-2012	good	
United Kingdom	130,000	18	1998-2002	good	-	31	1999-2011	good	-	13	1986-2000	good	
<b>EU27</b>	<b>414,000-493,000</b>	<b>61</b>			<b>Decreasing</b>								
<b>Europe</b>	<b>685,000-809,000</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.

## 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

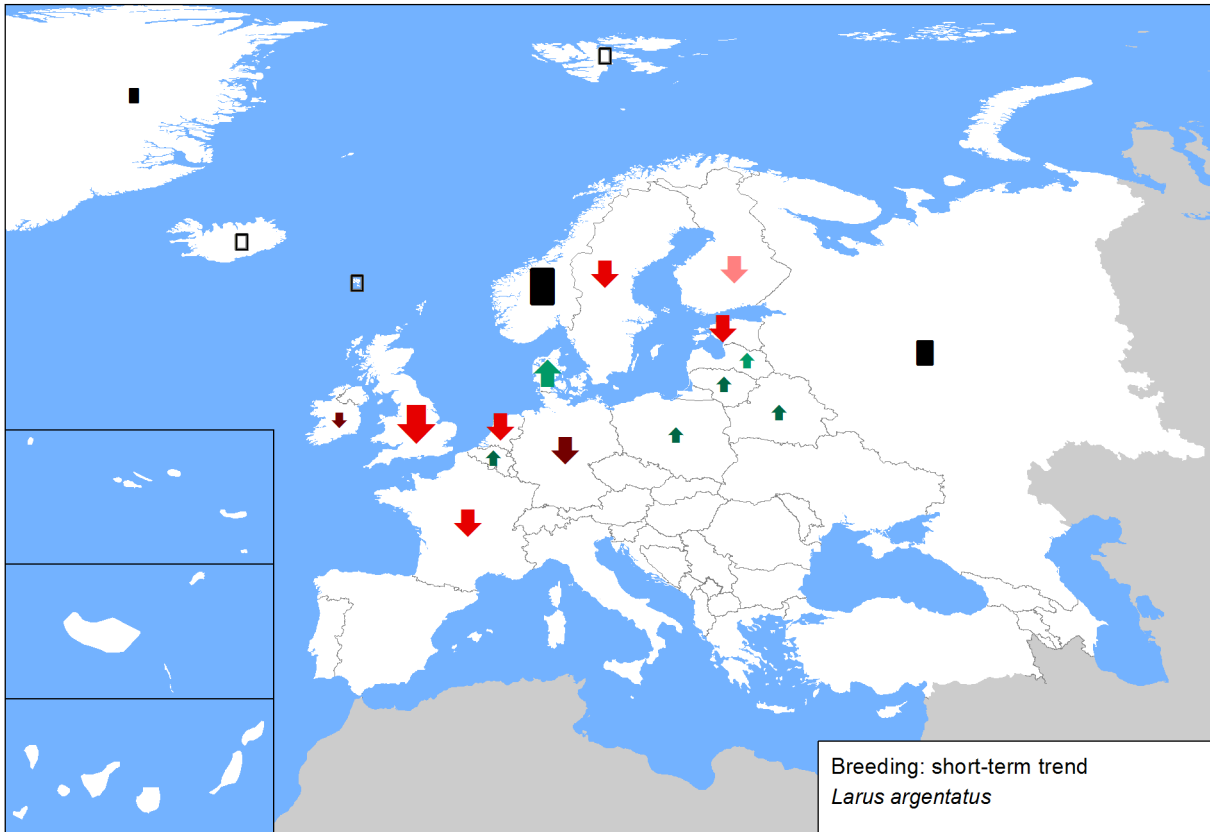
- |   |                                  |
|---|----------------------------------|
| ↑ Large increase ( $\geq 50\%$ )        | ↓ Large decrease ( $\geq 50\%$ ) |
| ↑ Moderate increase (20–49%)            | ↓ Moderate decrease (20–49%)     |
| ↑ Small increase ( $< 20\%$ )           | ↓ Small decrease ( $< 20\%$ )    |
| ↑ 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.

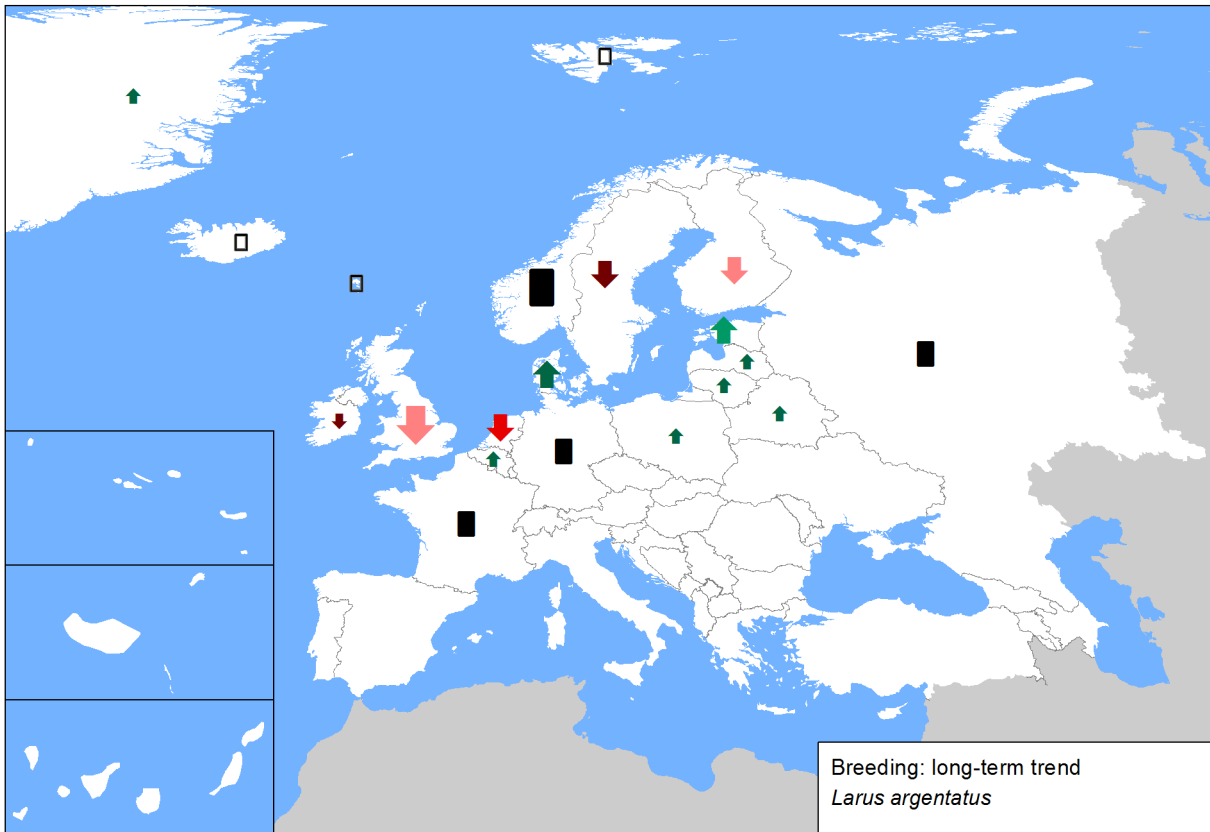
- ↑ Large:  $\geq 10\%$  of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small:  $< 1\%$  of the European population

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



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



## Sources

### Belarus

<b>Breeding population size:</b> Yakovets N.N. - personal communication
<b>Breeding short-term trend:</b> Yakovets N.N. - personal communication
<b>Breeding long-term trend:</b> Yakovets N.N. - personal communication Ivanovski V.V., Naumchik A.V. Herring Gull // Overview. Environmental conservation. Protected plants and animals of Belarus. – 1982. – Minsk. – P.45-46

### Belgium

<b>Breeding population size:</b> Database Rare and less common Breeding Birds, INBO (coord. A.Anselin), selected data Waarnemingen.be, compilation of data and enquiries in ornithological community
<b>Breeding short-term trend:</b> Rare bird panel
<b>Breeding long-term trend:</b> Comparison between 2008-2012 estimate and Devillers, 1989 (Atlas of the Belgian Breeding Bird) population estimate

### Denmark

<b>Breeding population size:</b> BIRDLIFE INTERNATIONAL (2004) Birds in Europe: population estimates, trends and conservation status. Wageningen, The Netherlands: BirdLife International. (BirdLife Conservation Series No. 12) Heldbjerg, H. & Lerche-Jørgensen, M. (2012): Overvågning af de danske almindlige fuglearter i Danmark 1975-2011. Årsrapport for Punkttællingsprojektet. Dansk Ornitologisk Forening. (The Danish Point Count Census for breeding birds during the period 1999-2011)
<b>Breeding short-term trend:</b> Heldbjerg, H. & Lerche-Jørgensen, M. (2012): Overvågning af de danske almindlige fuglearter i Danmark 1975-2011. Årsrapport for Punkttællingsprojektet. Dansk Ornitologisk Forening. (The Danish Point Count Census for breeding birds during the period 1999-2011)
<b>Breeding long-term trend:</b> Heldbjerg, H. & Lerche-Jørgensen, M. (2012): Overvågning af de danske almindlige fuglearter i Danmark 1975-2011. Årsrapport for Punkttællingsprojektet. Dansk Ornitologisk Forening. (The Danish Point Count Census for breeding birds during the period 1980-2011)

### DK: Faroe Is

<b>Breeding population size:</b> BirdLife International (2004) Birds in Europe: population estimates, trends and conservation status. BirdLife International, Cambridge, UK. TemaNord (2010) Action plan for seabirds in Western-Nordic areas. Nordic Council of Ministers, Copenhagen. Hammer et al. (2014) Færøsk trækfugleatlas [Faroese bird migration atlas]. Fróðskapur / Faroese University Press, Tórshavn.
---

### DK: Greenland

<b>Breeding population size:</b> Boertmann, D., Mosbech, A., Bjerrum, M., Labansen, A.L. & Merkel F. 2010. The Greenland seabird colony register. – Poster ved 1st Seabird World Conference, Victoria 7-11 Sept. 2010.
<b>Breeding short-term trend:</b> Boertmann, D. & Frederiksen in prep.
<b>Breeding long-term trend:</b> Boertmann, D. 1994: An annotated checklist to the birds of Greenland. – Meddr. Grønland Biosc. 38: 64 pp.

### Estonia

<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. Hirundo 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. Hirundo 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. Hirundo 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

<b>Breeding population size:</b> Väisänen, Risto A., Hario, Martti & Saurola, Pertti 2011: Population estimates of Finnish birds. In: Valkama, Jari, Vepsäläinen, Ville & Lehtikoinen, Alekski 2011: The Third Finnish Breeding Bird Atlas. – Finnish Museum of Natural History and Ministry of Environment. (cited [15.11.2013]) ISBN 978-952-10-7145-4.
<b>Breeding short-term trend:</b> Archipelago Bird Census data and Monitoring of Breeding Waterfowl data combined.
<b>Breeding long-term trend:</b> Archipelago Bird Census data and Monitoring of Breeding Waterfowl data combined.

### France

<b>Breeding population size:</b> <a href="http://files.biolovision.net/www.atlas-ornitho.fr/pdf/files/ROMN2009-2010RP1-mars2011-9035.pdf">http://files.biolovision.net/www.atlas-ornitho.fr/pdf/files/ROMN2009-2010RP1-mars2011-9035.pdf</a>
<b>Breeding short-term trend:</b> Cadiou B., Pons J.-M. & Yésou P. (éds) 2004 Oiseaux marins nicheurs de France métropolitaine (1960-2000), Mèze, éditions Biotope, 218 p.
<b>Breeding long-term trend:</b> Cadiou B., Pons J.-M. & Yésou P. (éds) 2004 Oiseaux marins nicheurs de France métropolitaine (1960-2000), Mèze, éditions Biotope, 218 p.

### Germany

<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> Dachverband Deutscher Avifaunisten e.V.
<b>Breeding long-term trend:</b> Dachverband Deutscher Avifaunisten e.V.

### Iceland

<b>Breeding population size:</b> Umhverfisráðuneytið 1992
---

### Republic of Ireland

<b>Breeding population size:</b> Mitchell, P. Ian, Newton, S.F., Ratcliffe, N. & Dunn, T.E. (2004) Seabird populations of Britain and Ireland. Results of the Seabird 2000 Census (1998-2002). T & AD Poyser, London. Expert opinion and unpublished data: S. Newton, BirdWatch Ireland; <a href="http://www.birdwatchireland.ie">http://www.birdwatchireland.ie</a> .
--

## *Larus argentatus* (European Herring Gull)

### Republic of Ireland

**Breeding short-term trend:** Mitchell, P. Ian, Newton, S.F., Ratcliffe, N. & Dunn, T.E. (2004) Seabird populations of Britain and Ireland. Results of the Seabird 2000 Census (1998-2002). T & AD Poyser, London. Expert opinion and unpublished data: S. Newton, BirdWatch Ireland; <http://www.birdwatchireland.ie>.

**Breeding long-term trend:** Lloyd, C., Tasker, M.L. & Partridge, K. (1991) The status of Seabirds in Britain and Ireland. T & AD Poyser, London. Expert opinion and unpublished data: S. Newton, BirdWatch Ireland; <http://www.birdwatchireland.ie>.

### Latvia

**Breeding population size:** Ruslans Matrozis: [matruslv@inbox.lv](mailto:matruslv@inbox.lv)

**Breeding short-term trend:** Viksne J., Janaus M. 2009. Kaijveidigie putni Riga - agrak, tagad un nakotne. - Putni daba 2009/4: 4-9

**Breeding long-term trend:** Priednieks J., Strazds M., Strazds A., Petrins A. 1989. Latvian Breeding Bird Atlas 1980-1984. Riga: Zinatne. Ruslans Matrozis: [matruslv@inbox.lv](mailto:matruslv@inbox.lv)

### Lithuania

**Breeding population size:** Expert working group of the Lithuanian Ornithological Society ([lod@birdlife.lt](mailto:lod@birdlife.lt)) Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“, 288 p.

**Breeding short-term trend:** Expert working group of the Lithuanian Ornithological Society ([lod@birdlife.lt](mailto:lod@birdlife.lt)) Jusys, V., Karalius, S., Raudonikis, L. 2012. Lietuvos paukščių pažinimo vadovas. Kaunas: „Lututė“, 288 p. Kurlavičius, P. (ed.) 2006. Lietuvos perinčių paukščių atlasas. Kaunas: „Lututė“, 256 p. Raudonikis L. 2004. Lithuania. In: Birds in Europe: population estimates, trends, and conservation status. BirdLife International, BirdLife Conservation Series No12, Cambridge, UK.

**Breeding long-term trend:** Expert working group of the Lithuanian Ornithological Society ([lod@birdlife.lt](mailto: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.

### Netherlands

**Breeding population size:** NEM, Sovon en CBS (Boele et al. 2011-2013, van Dijk et al 2010)

**Breeding short-term trend:** NEM, Sovon en CBS, Boele et al. (2013)

**Breeding long-term trend:** Sovon

### Norway

**Breeding population size:** The Norwegian Monitoring programme for seabirds, Svein-Håkon Lorentsen pers.comm.

**Breeding short-term trend:** The Norwegian Monitoring programme for seabirds, Svein-Håkon Lorentsen pers.comm.

**Breeding long-term trend:** The Norwegian Monitoring programme for seabirds, Svein-Håkon Lorentsen pers.comm.

### NO: Svalbard

**Breeding population size:** Bangjord, G., Haugskott, T. & Hammer, S. 2013. Svalbard birds - a basic field guide. Longyearbyen Field Biological Society. 124 pages.

### Poland

**Breeding population size:** Unpublished data: W. Bagiński, Sz. Bzoma, B. Kotlarz, T. Mokwa, G. Neubauer, M. Piotrowski, W. Półtorak, A. Sikora, M. Stopiński, M. Zagalska-Neubauer, M. Ziółkowski; Neubauer G., Zagalska-Neubauer M., Gwiazda R., Faber M., Bukaciński D., Betleja J., Chylarecki P. 2006. Large white-headed gulls in Poland: distribution, numbers, trends and hybridization. Vogelwelt 127: 11–22; Kajzer Z. 2012. Gniazdowanie mewy srebrzystej *Larus argentatus* na Pomorzu Zachodnim w roku 2008. Ptaki Pomorza 3: 41-47; Wilk T., Jujka M., Krogulec J., Chylarecki P. (red.) 2010. Ostoje ptaków o znaczeniu międzynarodowym w Polsce. OTOP; Marki; Sikora A., Zielińska M., Wieloch M., Zieliński P., Rohde Z. 2012. Monitoring Gatunków Rzadkich 2. In: Podsumowanie sezonu lęgowego Monitoringu Ptaków Polski w 2012 r. OTOP, MiłZ, KOO, SOS: 123-142 (source: [http://monitoringptakow.gios.gov.pl/raporty?file=files/pliki/raporty\\_faza4/RaportMPP4\\_etap1\\_zad2%264\\_wiosna2012.pdf](http://monitoringptakow.gios.gov.pl/raporty?file=files/pliki/raporty_faza4/RaportMPP4_etap1_zad2%264_wiosna2012.pdf))

**Breeding short-term trend:** Neubauer G., Zagalska-Neubauer M., Gwiazda R., Faber M., Bukaciński D., Betleja J., Chylarecki P. 2006. Breeding large gulls in Poland: distribution, numbers, trends and hybridisation. Vogelwelt 127: 11-22; Kajzer Z. 2012. Gniazdowanie mewy srebrzystej *Larus argentatus* na Pomorzu Zachodnim w roku 2008. Ptaki Pomorza 3: 41-47.

**Breeding long-term trend:** Neubauer G., Zagalska-Neubauer M., Gwiazda R., Faber M., Bukaciński D., Betleja J., Chylarecki P. 2006. Breeding large gulls in Poland: distribution, numbers, trends and hybridisation. Vogelwelt 127: 11-22

### Russia

**Breeding population size:** Bianki V.V., Kohanov V.D., Koryakin A.S., Krasnov Yu.V., Paneva T.D., Tatarinkova I.P., Chemyakin R.G., Shklyarevich F.N., Shutova E.V. 1993. Birds of Kola-White Sea Region. - Russian Ornithological Magazine, express-issue, 22 (4): 491-586 (in Russian). Koryakin A.S. 2012. Monitoring of sea birds in Kandalaksha Bay of the White Sea (1967-2010). - Zoological Journal, 91, no.7: 800-808 (in Russian). Krasnov, Yu.V., Matishov, G.G., Galaktionov, K.V., Savinova, T.N. 1995. The colonial seabirds of Murman. St. Petersburg: Nauka Publishers, 224 pp. (In Russian). Krasnov Yu.V., Gavrilov M.V., Ström H., Shavykin A.A. 2008. About late-summer distribution of birds in Kolguev Islands and the factors determining it. - Ornitologia, 35: 83-96 (in Russian). Semashko V.Yu., Cherenkov A.E., Tertitskiy G.M. 2012. Recent numbers of marine and water birds in the islands of Onega Bay and tendencies of their changes. - Ecology of sea birds of White Sea. Apatity, KSC RAS: 140-168 (in Russian). Karyakin I.V., 1998. Conspectus of bird fauna of the Perm Region. Perm: 261 p. (in Russian). Karyakin I.V., 1998. Conspectus of bird fauna of the Bashkortostan Republic. Perm: 253 p. (in Russian).

**Breeding short-term trend:** Koryakin A.S. 2012. Monitoring of sea birds in Kandalaksha Bay of the White Sea (1967-2010). - Zoological Journal, 91, no.7: 800-808 (in Russian). Krasnov Yu.V., Gavrilov M.V., Ström H., Shavykin A.A. 2008. About late-summer distribution of birds in Kolguev Islands and the factors determining it. - Ornitologia, 35: 83-96 (in Russian). Semashko V.Yu., Cherenkov A.E., Tertitskiy G.M. 2012. Recent numbers of marine and water birds in the islands of Onega Bay and tendencies of their changes. - Ecology of sea birds of White Sea. Apatity, KSC RAS: 140-168 (in Russian). Yakovleva M.V., unpublished. [kivach-bird@rambler.ru](mailto:kivach-bird@rambler.ru)

**Breeding long-term trend:** Bianki V.V., Kohanov V.D., Koryakin A.S., Krasnov Yu.V., Paneva T.D., Tatarinkova I.P., Chemyakin R.G., Shklyarevich F.N., Shutova E.V. 1993. Birds of Kola-White Sea Region. - Russian Ornithological Magazine, express-issue, 22 (4): 491-586 (in Russian). Koryakin A.S. 2012. Monitoring of sea birds in Kandalaksha Bay of the White Sea (1967-2010). - Zoological Journal, 91, no.7: 800-808 (in Russian). Bianki V.V. 2011. Causes of changes in the numbers of coastal birds in the Kandalaksha Bay in the second half of XX century. - Russian Ornithological Magazine, express-issue 20 (671): 1373-1375 (in Russian). Krasnov, Yu.V., Matishov, G.G., Galaktionov, K.V., Savinova, T.N. 1995. The colonial seabirds of Murman. St. Petersburg: Nauka Publishers, 224 pp. (In Russian). Krasnov Yu.V., Gavrilov M.V., Ström H., Shavykin A.A. 2008. About late-summer distribution of birds in Kolguev Islands and the factors determining it. - Ornitologia, 35: 83-96 (in Russian). Semashko V.Yu., Cherenkov A.E., Tertitskiy G.M. 2012. Recent numbers of marine and water birds in the islands of Onega Bay and tendencies of their changes. - Ecology of sea birds of White Sea. Apatity, KSC RAS: 140-168 (in Russian).

## *Larus argentatus* (European Herring Gull)

### Sweden

**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.

### United Kingdom

**Breeding population size:** Madden, B. & Newton, S.F. 2004. Herring Gull *Larus argentatus*. Pp. 242-262. In: Mitchell, P.I., Newton, S.F., Ratcliffe, N. & Dunn, T.E. (eds.) Seabird Populations of Britain and Ireland. Poyser, London.

**Breeding short-term trend:** JNCC 2012. Seabird population trends and causes of change: 2012 report (<http://www.jncc.defra.gov.uk/page-3201>). Joint Nature Conservation Committee. Updated July 2012.

**Breeding long-term trend:** Lloyd, C., Tasker, M.L. & Partridge, K. 1991. The status of seabirds in Britain and Ireland. London, T. & A.D. Poyser. 355 pp. Madden, B. & Newton, S.F. 2004. Herring Gull *Larus argentatus*. Pp. 242-262. In: Mitchell, P.I., Newton, S.F., Ratcliffe, N. & Dunn, T.E. (eds.) Seabird Populations of Britain and Ireland. Poyser, London.

## Bibliography

- Anderson, O.R.J., Small, C.J., Croxall, J.P., Dunn, E.K., Sullivan, B.J., Yates, O., Black, A., 2011. Global seabird bycatch in longline fisheries. *Endang Species Res* 14, 91–106.
- Bradbury, G., Trinder, M., Furness, B., Banks, A.N., Caldow, R.W.G., Hume, D., 2014. Mapping seabird sensitivity to offshore wind farms. *PLoS ONE* 9, e106366.
- Burger, J., Gochfeld, M., Kirwan, G.M. & Christie, D.A. (2013). European Herring Gull (*Larus argentatus*). In: del Hoyo, J., Elliott, A., Sargatal, J., Christie, D.A. & de Juana, E. (eds.) (2013). *Handbook of the Birds of the World Alive*. Lynx Edicions, Barcelona.
- Gorski, W.; Jakuczun, B.; Nitecki, C.; Petryna, A. 1977. Investigation of oil pollution on the Polish Baltic coast in 1974-1975. *Przeład Zoologiczny* 21(1): 20-23.
- Melville, D. S.; Shortridge, K. F. 2006. Migratory waterbirds and avian influenza in the East Asian-Australasian Flyway with particular reference to the 2003-2004 H5N1 outbreak. In: Boere, G.; Galbraith, C., Stroud, D. (ed.), *Waterbirds around the world*, pp. 432-438. The Stationary Office, Edinburgh, UK.
- Snow, D. W.; Perrins, C. M. 1998. *The Birds of the Western Palearctic vol. 1: Non-Passerines*. Oxford University Press, Oxford.
- Žydelis, R., Small, C., French, G., 2013. The incidental catch of seabirds in gillnet fisheries: A global review. *Biological Conservation* 162, 76–88.