



THE IUCN RED LIST  
OF THREATENED SPECIES™



## ***Monticola saxatilis* (Rufous-tailed Rock-thrush)**

### **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**

Reported national population sizes and trends  
Trend maps of reported national population data  
Sources of reported national population data  
Species factsheet bibliography

#### **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](mailto:science@birdlife.org).

*Monticola saxatilis* (Rufous-tailed Rock-thrush)

**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>5</sup>				Long-term population trend <sup>5</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	
Albania	100–270	<1	2007-2018	partial	-	-66 to -50	2007-2018	partial	-	-73 to -67	1980-2018	expert	
Andorra	20–60	<1	2014-2017	expert	?		2011-2018	complete	?				
Armenia	7800–11500	6	2013-2018	complete	0		2007-2018		0		2003-2018	partial	
Austria	110–160	<1	2013-2018	partial	?		2007-2018	deficient	?		1981-2018	deficient	
Azerbaijan	1000–10000	2	1996-2019	expert	?		2013-2019	expert	?		1980-2019	expert	
Bosnia & HG	300–600	<1	2015-2018	complete	?	-10 to 10	2007-2018	complete	?		1980-2018	deficient	
Bulgaria	300–600	<1	2013-2018	partial	-	-40 to -30	2000-2018	partial	-	-30 to -20	1980-2018	partial	
Croatia	1000–5000	1	2014-2014	expert	?		2007-2018	deficient	?		1980-2018	deficient	
France	2000–4000	2	2013-2018	partial	0	0	2007-2017	partial	-		1989-2017	expert	
Georgia	1200–12700	3	2013-2017	partial	?			deficient	?				
Germany	2	<1	2016-2016	partial	?		2004-2016	deficient	?		1980-2016	deficient	
Greece	10000–15000	8	2013-2018	partial	?		2007-2018	deficient	0	0	1980-2018	partial	
Hungary	0	<1	2013-2018	complete	-	-100	2007-2018	complete	-	-100	1980-2018	complete	
Italy	5000–10000	5	2013-2018	expert	-	-20 to -5	2000-2014	expert	0		1993-2018	expert	
Kosovo	150–250	<1	2007-2019	partial	+		2007-2018	partial	F		1990-2018	partial	
North Macedonia	1000–2500	1	2014-2019	expert	0		2007-2018	expert	?		1980-2019		
Moldova		<1			?				?		1990-2018	deficient	
Montenegro	200–400	<1	2002-2012	expert	0		2007-2018	expert	?				
Poland	0	<1	2013-2018	complete	?		2007-2018	deficient	-	-100	1980-2018	complete	
Portugal	100–500	<1	2013-2018	partial	?		2007-2018	deficient	?		1980-2018	deficient	
Romania	45–200	<1	2013-2018	expert	-	-20 to -1	2007-2018	expert	-	-80 to -20	1980-2018	expert	
Russia	3000–4200	2	2008-2018	partial	-	-49 to -30	2008-2018	expert	-	-49 to -30	1980-2018	expert	
Serbia	430–670	<1	2013-2018	partial	-	-29 to -10	2007-2018	complete	-	-29 to -10	1980-2018	complete	
Slovakia	0–1	<1	2013-2018	expert	-	-100	2007-2018	expert	-	-100 to -50	1980-2018	expert	
Slovenia	200–300	<1	2002-2018	partial	?		2007-2018	deficient	-	-10 to -5	1980-2018	expert	
Spain	2600–2700	2	2013-2018	partial	-		2007-2018	complete	0		1980-2018	partial	
Switzerland	2000–3000	2	2013–2016	partial	+	12 to 61	2007-2018	complete	-	-39 to -7	1990-2018	complete	
Turkey	50000–200000	64	2013-2019	deficient	?		2008-2019	deficient	?		1980-2013	deficient	
Ukraine	800–1000	<1	2014-2018	partial	-	-15 to -5	2007-2018	partial	-	-30 to -10	1980-2018	partial	
EU28	21400–38500	18											
<b>Europe</b>	<b>89500–286000</b>	<b>100</b>											

*Monticola saxatilis* (Rufous-tailed Rock-thrush)

**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>5</sup>				Long-term population trend <sup>5</sup>				Subspecific population (where relevant)
	Size (pairs) <sup>3</sup>	Europe (%)	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	Direction <sup>6</sup>	Magnitude (%) <sup>7</sup>	Year(s)	Method <sup>4</sup>	

<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 '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.

<sup>5</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>6</sup> Trend directions are reported as: increasing (+); decreasing (-); stable (0); fluctuating (F); or unknown (?).

<sup>7</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

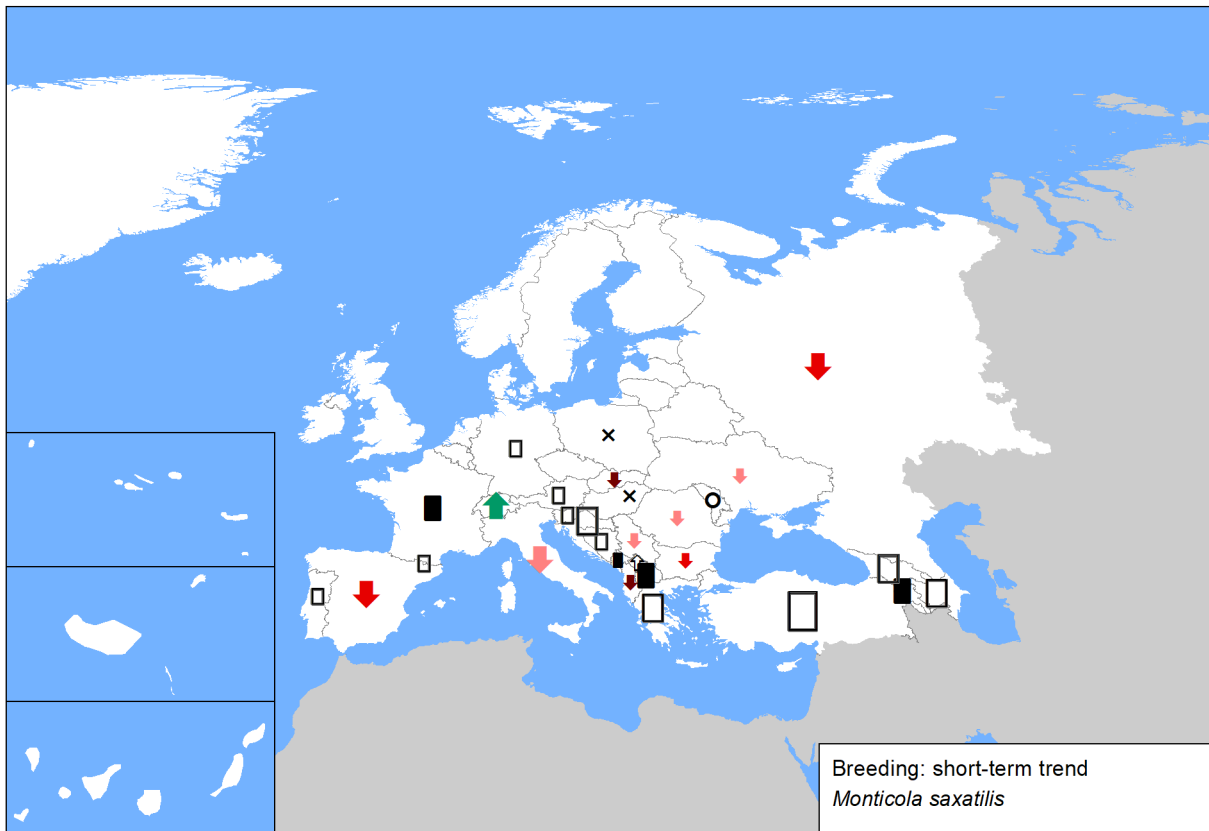
- |   |                                 |
|---|---------------------------------|
| ↑ Large increase (≥50%)                 | ↓ Large decrease (≥50%)         |
| ↑ Moderate increase (20–49%)            | ↓ Moderate decrease (20–49%)    |
| ↑ Small increase (<20%)                 | ↓ Small decrease (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

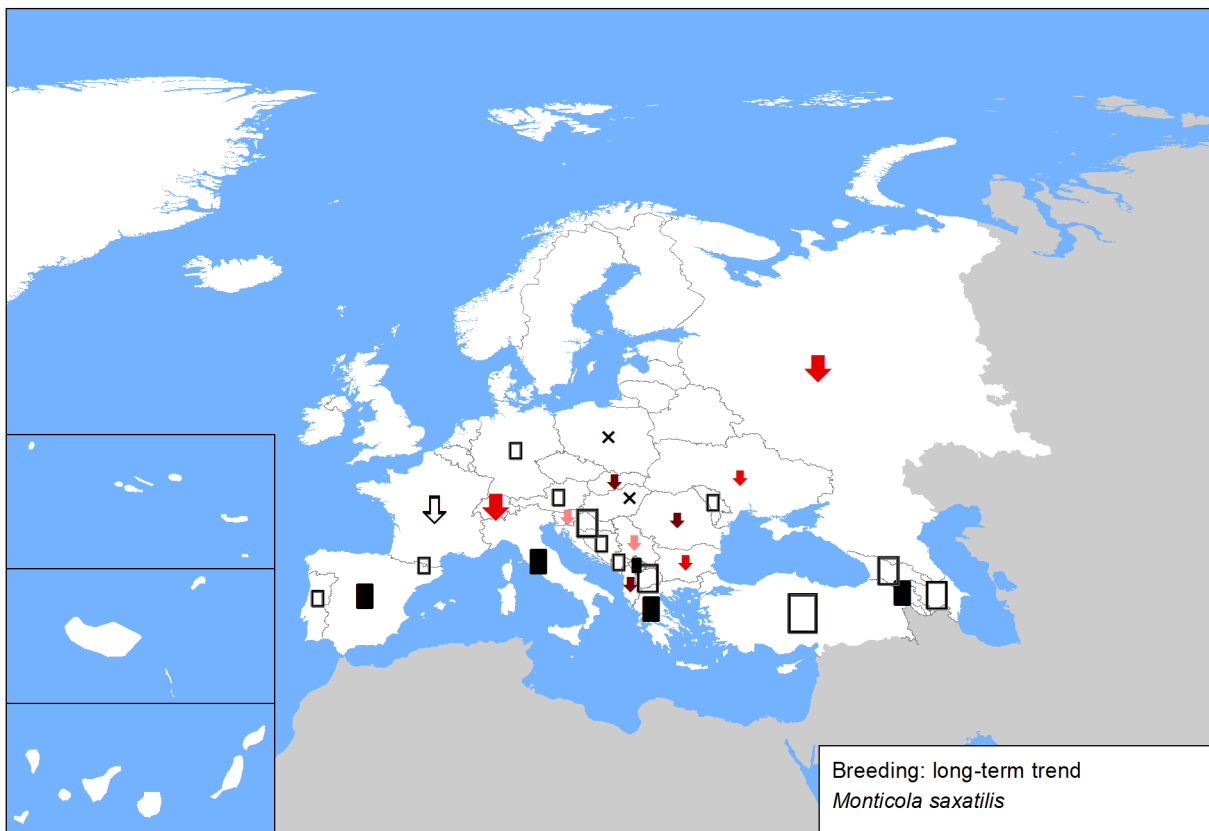
- ↑ Large: ≥10% of the European population
- ↑ Medium: 1–9% of the European population
- ↑ Small: <1% of the European population

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.



*Monticola saxatilis* (Rufous-tailed Rock-thrush)

## Sources

### Albania

**Breeding population size:** Bino & Xeka pers. obs.

**Breeding short-term trend:** Bino & Xeka pers. obs.

**Breeding long-term trend:** Bino pers. obs.

### Andorra

**Breeding population size:** Fieldwork EBBA2, published at "Guia dels ocells d'Andorra. J. Nicolau & C. Pladevall, 2018"

**Breeding short-term trend:** Common Bird Monitoring Scheme of Andorra (SOCA)

### Armenia

**Breeding population size:** TSE NGO National Bird Monitoring data.

**Breeding short-term trend:** TSE (2020) The Atlas of the Breeding Birds in Armenia. In preparation.

**Breeding long-term trend:** TSE (2020) The Atlas of the Breeding Birds in Armenia. In preparation.

### Austria

**Breeding population size:** BirdLife Austria, unpublished data from [www.ornitho.at](http://www.ornitho.at); unpublished data from the Tiroler Brutvogelatlas

**Breeding short-term trend:** BirdLife Austria, unpublished archive data

**Breeding long-term trend:** BirdLife Austria, unpublished archive data

### Azerbaijan

**Breeding population size:** BirdLife International 2004

**Breeding short-term trend:** AOS data base

**Breeding long-term trend:** AOS Data Base

### Bosnia and Herzegovina

**Breeding population size:** Based on data for EBBA2

**Breeding short-term trend:** more individual articles e.g published in magazine Bilten mreže posmatrača ptica u Bosni i Hercegovini-see [https://ptice.ba/bs/category/bilteni\\_/](https://ptice.ba/bs/category/bilteni_/), individual reports (e.g. for EBBA2, projects etc)

### Bulgaria

**Breeding population size:** Iankov, P. (ed.) 2007 Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 679 p.; National Art. 12 reporting database 2013-2018; Common birds monitoring scheme in Bulgaria (<http://bspb.org/monitoring/bg/index.html>) BSPB Bird Database

**Breeding short-term trend:** Iankov, P. (ed.) 2007 Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 679 p.; National Art. 12 reporting database 2013-2018;

**Breeding long-term trend:** Iankov, P. (ed.) 2007 Atlas of Breeding Birds in Bulgaria. Bulgarian Society for the Protection of Birds, Conservation Series, Book 10, Sofia, BSPB, 679 p.

### Croatia

**Breeding population size:** BirdLife International 2015: European Red List of Birds. Luxembourg: Office for Official Publications of the European Communities.). <http://datazone.birdlife.org/info/euroredlist>

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

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

### France

**Breeding population size:** Issa N. & Muller Y. 2015. Atlas des oiseaux nicheurs de France métropolitaine. , LPO/SEOF/MNHN/Delachaux et Niestlé, Paris

### Georgia

**Breeding population size:** EBBA Georgia, prepared by Sabuko-Society for nature conservation, Iliia state university, NGO "psovi".

### 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.

## *Monticola saxatilis* (Rufous-tailed Rock-thrush)

### Greece

**Breeding population size:** 1) BirdLife International (2017). European birds of conservation concern: populations, trends and national responsibilities. Cambridge, UK: BirdLife International. ISBN 978-1-912086-00-9 2) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Α., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Παπαζογλου, 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. 3) Portolou, D., Bourdakis, S., Vlachos, C., Kastritis, T., and Dimalexis, T. (eds.) 2009. Important Bird Areas of Greece: Priority sites for conservation. Hellenic Ornithological Society. Athens. 4) Dimalexis, T., Bousbouras, D., Kastritis, T., Manolopoulos, A. & Saravia, V. (eds.) 2009. Evaluation of 69 Important Bird Areas as Special Protection Areas. Hellenic Ministry for the Environment, Physical Planning and Public Works, Athens.

**Breeding short-term trend:** no data

**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) Δημαλέξης, Τ., Καστρίτης, Θ., Γρίβας, Κ., Μανωλόπουλος, Α., Καρδακάρη, Ν., Κακαλής, Α., Ξηρουχάκης, Σ., Τσαϊτουρίδης, Χ., Παπαζογλου, 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.

### Hungary

**Breeding population size:** Expert opinion <http://www.birding.hu/> <http://map.mme.hu/maps/map2>

**Breeding short-term trend:** Expert opinions <http://www.birding.hu/> <http://map.mme.hu/maps/map2>

**Breeding long-term trend:** Expert opinions Haraszthy László (szerk.) (2000): Magyarország madarai. Mezőgazda Kiadó, Budapest, 448. <http://www.birding.hu/> <http://map.mme.hu/maps/map2>

### Italy

**Breeding population size:** BirdLife International 2017. European birds of conservation concern: populations, trends and national responsibilities. Cambridge, UK: BirdLife International.

**Breeding short-term trend:** BirdLife International 2017. European birds of conservation concern: populations, trends and national responsibilities. Cambridge, UK: BirdLife International.

**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.

### Kosovo

**Breeding population size:** Qenan Maxhuni

**Breeding short-term trend:** Qenan Maxhuni

**Breeding long-term trend:** Puzovic, S. et al. (2004): Birds of Serbia and Montenegro – Size of nesting populations. I trends: 1990-2002. Ciconia 12

### North Macedonia

**Breeding population size:** unpublished data from the European Breeding Bird Atlas 2

**Breeding short-term trend:** unpublished data from the European Breeding Bird Atlas 2

### Moldova

**Breeding long-term trend:** SPPN expert opinion ([sppn.moldova@gmail.com](mailto:sppn.moldova@gmail.com))

### Montenegro

**Breeding population size:** Puzovic, S., Simic, D., Saveljić, D., Gergelj, J., Tucakov, M., Stojnic, N., Hulo, I., Ham, I., Vizi, O., Sciban, M., Ruzic, M., Vucanovic, M., Jovanovic, T. (2004): Birds of Serbia and Montenegro – Size of nesting populations. I trends: 1990-2002. Ciconia 12,

### Poland

**Breeding population size:** The Polish Avifaunistic Commission <http://komisjafaunistyczna.pl/>

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

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

### Portugal

**Breeding population size:** eBird (2019). eBird: An online database of bird distribution and abundance [web application]. eBird, Ithaca, New York. Available: <http://www.ebird.org/portugal/home>. (Accessed: October 22, 2018).

### 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:** Ciochia V., (1992), Păsările clocitoare din România, Editura Științifică, București Weber, P. (ed) (1994) Atlasul Provizoriu Al Păsărilor Clocitoare din România. Publ SOR 2, Mediaș Munteanu, D., Papadopol, A. și Weber, P. 2002. Atlasul Păsărilor Clocitoare din România. Societatea Ornitologică Română, Cluj-Napoca. Ornitodata (Romanian Ornithological Society) Database, OpenBirdMaps (Milvus Group) Database, Rombird (Romanian Rarity Commission) Database

### Russia

**Breeding population size:** Voltzit & Kalyakin 2013-2019; Database of the project on Atlas of breeding birds of European Russia

**Breeding short-term trend:** Belik 2014

**Breeding long-term trend:** Belik et al. 2003; Belik 2014

## Monticola saxatilis (Rufous-tailed Rock-thrush)

### Serbia

**Breeding population size:** EBBA2 project; Puzović, S., Radišić, D., Ružić, M., Rajković, D., Radaković, M., Pantović, U., Janković, M., Stojnić, N., Šćiban, M., Tucakov, M., Gergelj, J., Sekulić, G., Agošton, A. & Raković, M. 2015. Birds of Serbia: Breeding Population Estimates and Trends for the Period 2008-2013. Bird protection and study society of Serbia, and Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad.

**Breeding short-term trend:** EBBA2 project; Puzović, S., Radišić, D., Ružić, M., Rajković, D., Radaković, M., Pantović, U., Janković, M., Stojnić, N., Šćiban, M., Tucakov, M., Gergelj, J., Sekulić, G., Agošton, A. & Raković, M. 2015. Birds of Serbia: Breeding Population Estimates and Trends for the Period 2008-2013. Bird protection and study society of Serbia, and Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad.

**Breeding long-term trend:** Puzović, S., Radišić, D., Ružić, M., Rajković, D., Radaković, M., Pantović, U., Janković, M., Stojnić, N., Šćiban, M., Tucakov, M., Gergelj, J., Sekulić, G., Agošton, A. & Raković, M. 2015. Birds of Serbia: Breeding Population Estimates and Trends for the Period 2008-2013. Bird protection and study society of Serbia, and Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad.

### Slovakia

**Breeding population size:** Coordinatory group for reporting 2019. Danko Štefan, Darolová Alžbeta, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002. Karaska D., Trnka A., Krištin A., Ridož J.: Chránené vtáčie územia Slovenska. ŠOP SR Banská Bystrica, 2015.

**Breeding short-term trend:** Coordinatory group for reporting 2019, AVES-Symfony Database 2013-2018, KIMS Database 2013-2018. Danko Štefan, Darolová Alžbeta, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.

**Breeding long-term trend:** Coordinatory group for reporting 2019, AVES-Symfony Database 2013-2018, KIMS Database 2013-2018. Danko Štefan, Darolová Alžbeta, Krištin Anton: Rozšírenie vtákov na Slovensku. VEDA, vyd. SAV Bratislava, 2002.

### Slovenia

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

**Breeding short-term trend:** There are no sources for this information.

**Breeding long-term trend:** Geister I. (1995): Ornitološki atlas Slovenije. Državna založba Slovenije, Ljubljana. Mihelič T., Kmecl P., Denac K., Koce U., Vrezec A., Denac D. (eds.) (2019): Atlas ptic Slovenije. Popis gnezdičk 2002–2017. DOPPS, Ljubljana.

### Spain

**Breeding population size:** Martí, R. & del Moral, J.C. (Eds.) (2003). Atlas de las Aves Reproductoras de España. Dirección General de Conservación de la Naturaleza-Sociedad Española de Ornitología. Madrid, 733 pp. ([https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet\\_aves\\_atlas.aspx](https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx))

**Breeding short-term trend:** Información obtenida de la base de datos del Inventario Español de Especies Terrestres. Programa SACRE. Ministerio de Agricultura, Alimentación y Medio Ambiente ([https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/ieet\\_aves\\_sist\\_seg\\_tendencia\\_comunes\\_esp.aspx](https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/ieet_aves_sist_seg_tendencia_comunes_esp.aspx)) Información proporcionada por las Comunidades Autónomas. SEO/BirdLife (2012). Atlas de las aves en invierno en España 2007-2010. Ministerio de Agricultura, Alimentación y Medio Ambiente-SEO/ BirdLife. Madrid. 817 pp. ([https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/atlas\\_aves\\_invierno\\_tcm30-198034.pdf](https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/atlas_aves_invierno_tcm30-198034.pdf))

**Breeding long-term trend:** BirdLife International (2017). *Monticola saxatilis* (amended version of 2016 assessment). The IUCN Red List of Threatened Species 2017: e.T22708257A111788908. (<http://dx.doi.org/10.2305/IUCN.UK.2017-1.RLTS.T22708257A111788908.en>) Martí, R. & del Moral, J.C. (Eds.) (2003). Atlas de las Aves Reproductoras de España. Dirección General de Conservación de la Naturaleza-Sociedad Española de Ornitología. Madrid, 733 pp. ([https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet\\_aves\\_atlas.aspx](https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/inventario-especies-terrestres/inventario-nacional-de-biodiversidad/ieet_aves_atlas.aspx)) Purroy, F.J. (Coord.) (1997). Atlas de las aves de España (1975-1995). SEO/BirdLife. Lynx Edicions. Barcelona. 583 pp. SEO/BirdLife (2012). Atlas de las aves en invierno en España 2007-2010. Ministerio de Agricultura, Alimentación y Medio Ambiente-SEO/ BirdLife. Madrid. 817 pp. ([https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/atlas\\_aves\\_invierno\\_tcm30-198034.pdf](https://www.miteco.gob.es/es/biodiversidad/temas/inventarios-nacionales/atlas_aves_invierno_tcm30-198034.pdf))

### Switzerland

**Breeding population size:** Knaus, P., S. Antoniazza, S. Wechsler, J. Guélat, M. Kéry, N. Strebel & T. Sattler (2018): Swiss Breeding Bird Atlas 2013–2016. Distribution and population trends of birds in Switzerland and Liechtenstein. Swiss Ornithological Institute, Sempach.

**Breeding short-term trend:** <https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/>

**Breeding long-term trend:** <https://www.vogelwarte.ch/en/projects/population-trends/breeding-population-indices/>

### Turkey

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