EUROBATS Agreement and underground sites in Europe





UNEP/EUROBATS Agreement

The aim: to protect all European bat species through legislation, education, conservation measures and international co-operation with member states and with those who have not yet joined

The mandate: Agreement text (as amended in 2000) and its Annexes

Instruments: resolutions, publications, public relations, action plans, EUROBATS project initiative

UNEP/EUROBATS Agreement

- October 1985: the CMS Conference of Parties instructed its Secretariat to take appropriate measures to develop an Agreement for European bats
- The agreement was signed in London on 4th of December 1991 by Belgium, Denmark, Germany, Luxemburg, Netherlands and the UK
- EUROBATS Secretariat is co-located with the Secretariat of the Bonn Convention (CMS) at the UN Campus in Bonn





Species of concern (Annex 1 to the Agreement)

• 51 bat species from Vespertilionidae (42 species), Rhinolophidae (5 species), Miniopteridae (2 species) and single representatives of the Emballonuridae, Mollossidae and Pteropodidae

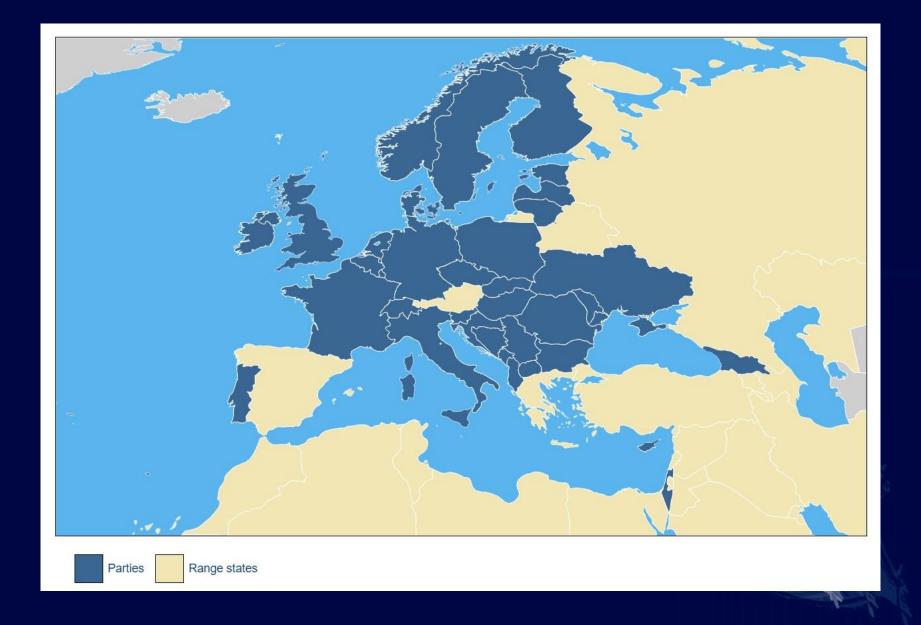


 3 species are Endangered, 4 Vulnerable, 7 Near Threatened and 3 Data Deficient (IUSN assessment 2021)

Area covered by EUROBATS



EUROBATS membership in 2021: 38 Parties out of 63 Range States



Meeting of Parties to EUROBATS

A session of the Meeting of Parties (MoP) is held every four years.

In the MoP the Parties:

- provide national reports on the implementation of the Agreement
- agree on the budget and scale of contributions for the next quadrennium
- discuss and adopt Resolutions to assist in implementing the principles of

the Agreement









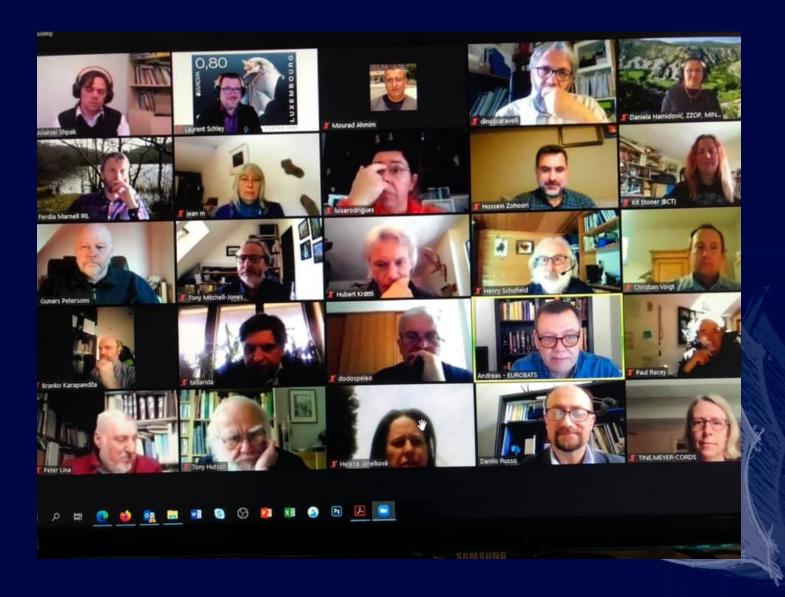


The Advisory Committee

- is open to all Parties and non-Party Range States, NGOs and Observers
- meets annually at meetings organized by the Secretariat
- provides expert advice and information to the Secretariat and the Parties on the conservation and management of bats
- targeted working groups (WG) may be established within the Committee to develop reports or Resolutions
- Intersessional WG are active between meetings



25th Meeting of the Advisory Committee Videoconference on 30 April 2021



Resolutions as a tool for bat conservation

- Following the obligations of Parties to the CMS, Agreements are binding international treaties. Resolutions adopted at the Sessions of the Meeting of Parties are equally binding and may require amendments to be enacted to the national legislation of each Party
- Parties and other range states are requested to provide nominated Focal Points, one for administration and one for scientific aspects.
- National experts gather in the Advisory Committee that identifies most urgent conservation problems and addresses them developing Resolutions
- Each Resolution urges Parties and encourages non-party Range States to undertake concrete actions with respect to one particular problem for bat conservation

Resolution 4 of 2nd Meeting of Parties, Bonn 1998

Parties decided:

- the following two habitat types should be the subject of specific national research in relation to the conservation of European bats: underground sites and forests
- the parties should endeavour to provide data on sites specified in annex I and II, as well as an assessment of sites with problems caused by man, by the middle of 2000 to the Secretariat
- the Eurobats Secretariat should commission an assessment of all national data

EUROBATS Publication No. 2



EUROBATS



Publication Series No.

2



Protecting and managing underground sites for bats

Tony Mitchell-Jones • Zoltán Bihari • Matti Masing • Luísa Rodrigues





Available in English, German, French, Russian, Polish and Romanian

EUROBATS Publication No. 2



EUROBATS Publication Series No. 2

Protecting and managing underground sites for bats



- It is often advantageous to protect grilles against rust. This is preferably done by galvanising at the time of manufacture (a hotdip process) or by coating the grille with an anti-rust preparation such as 'Norusto' or 'Nutrarust'. Epoxy resin paints may also be used, but paints with a persistent smell, such as bitumen, should be avoided.
- By careful design and construction it is possible to make a grille that is extremely strong and resistant to damage. However, it must be remembered that no grille can be proof against powerful welding or cutting equipment and that a prolonged and determined attack will eventually breach any

grille. Repair costs are likely to be proportional to the cost of the original grille. It is best to site the grille where it is visible from outside the cave or mine so that potential vandals are deterred.

 The grille must be fitted so that it does not impede air flow into the site. It is generally inadvisable to fit the grille into the narrowest part of an entrance, where it could critically affect air flow. If the narrowest point is the only logical place to put the grille, for example in a doorway, care must be taken to keep the obstruction to a minimum, particularly at floor and roof level.

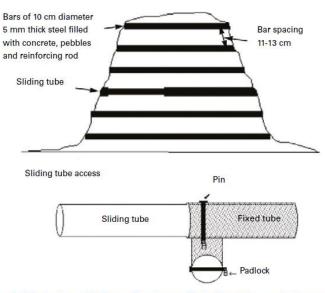


Figure 2. Grille design used in France. The tubes are filled with pebbles, steel and cement, which provide good resistance to cutting.

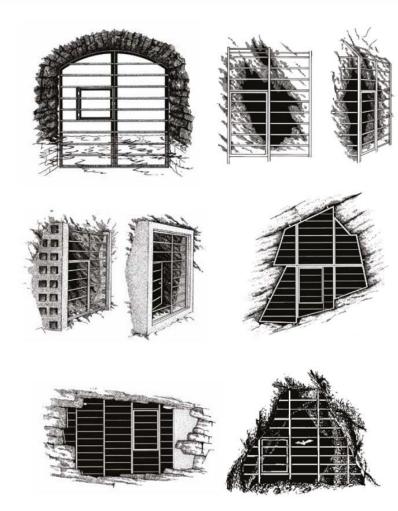


Figure 3. Examples of grilles fitted to horizontal entrances. Grilles can be made oversized and pinned to the rock face, fitted inside the entrance using bolts or pins or built into blockwork to square up and stabilise the entrance. Large grilles can be constructed off-site in sections and bolted or welded on site. A lockable entrance door should always be fitted.

16

EUROBATS database of internationally important underground sites contains details of 1,891 sites across the Agreement area

Sensitivity

Recognising the need to balance the value of publication against the sensitivity of some underground sites to disturbance and the threat posed by uncontrolled tourism, three options were offered:

A - Publication of standard details (site name, location, species list)

B - Limited publication; no site name, location degraded to 1° (approx. 111 km)

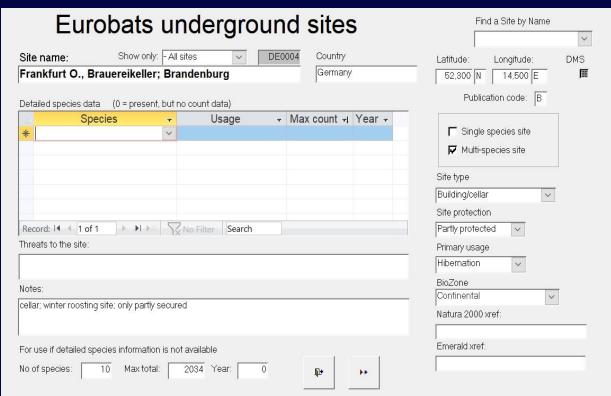
C - No publication

Publication code	No.	of sites
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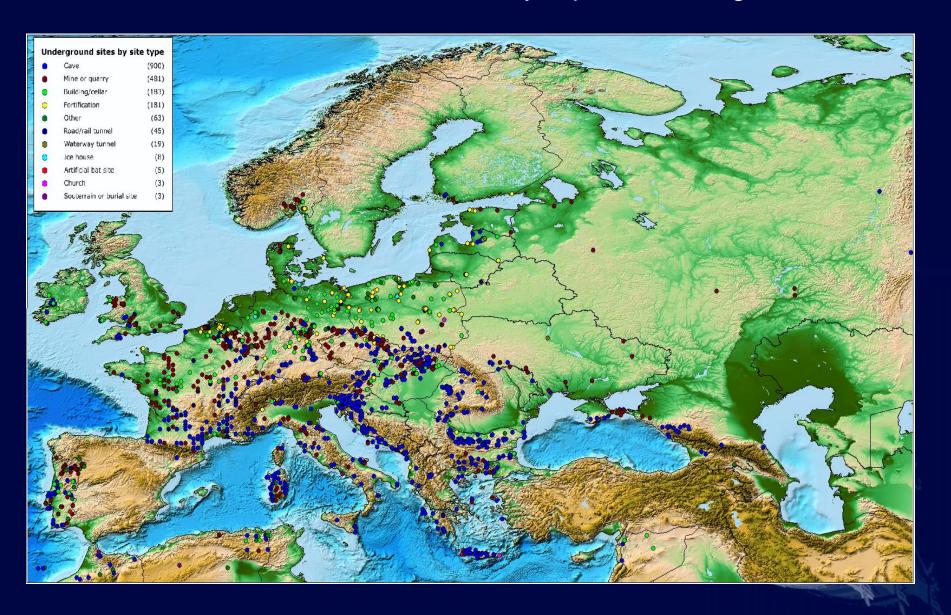
A – full publication 1,447

B – partial publication 433

C – no publication 15



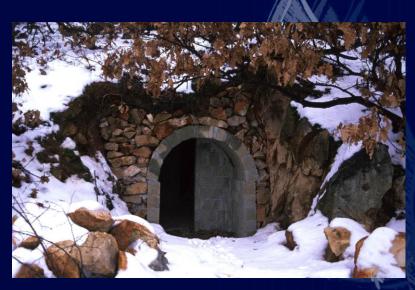




Caves and mines are most important

Site type	No of sites	Percent
Cave	900	47.59%
Mine or Quarry	481	25.44%
Building/cellar	183	9.68%
Fortification	181	9.57%
Other	63	3.33%
Road/rail tunnel	45	2.38%





Species	No of Sites	Best site	Best count
Miniopterus schreibersii	402	11003, France	70000
Pipistrellus pipistrellus	73	Erna, Slovakia	58000
Myotis myotis	473	MRU, Nietoperek main system fortifications, Poland	23627
Myotis daubentonii	425	Daugbjerg Kalkgruber, Denmark	17700
Myotis capaccinii	134	Ivanova Voda cave, Bulgaria	15500
Myotis myotis/oxygnathus	14	Shpella e Velces, Albania	10000
Myotis myotis/blythii	139	Peștera de la Izvorul Tăușoare, Romania	8855
Barbastella barbastellus	260	Canyon, Russian Federation	7000
Rhinolophus euryale	236	Orlova Chuka cave, Bulgaria	6300
Myotis emarginatus	285	Madzharovo Mining Complex, Bulgaria	6100
Myotis dasycneme	137	Mønsted Kalkgruber, Denmark	4600
Nyctalus noctula	28	Peștera Ungurului, Romania	4500
Rhinolophus mehelyi	74	Orlova Chuka cave, Bulgaria	4200
Myotis nattereri	326	MRU, Nietoperek main system fortifications, Poland	4042
Myotis blythii	141	Karabudakhkent, Russian Federation	4000

Country	Site name	Max count
Romania	Sura Mare Cave	81,134
France	11003	70,000
Slovakia	Erňa	58,049
Bulgaria	Devetashkata cave	45,503
Bulgaria	Parnitsite cave	42,410
Romania	Huda lui Papara cave	40,329
Croatia	Trbušnjak šplilja	39,000
France	13002	35,250
Poland	MRU, Nietoperek main system fortifications (lubuskie)	32,400
Croatia	Kuštrovka špilja	28,350
Bulgaria	Dyavolskoto Garlo cave	28,010
Croatia	Vištičina jama	27,975
Croatia	Tradanj šplilja	24,500
Portugal	Marvao I	21,505

Resolution 7.6 Conservation and Management of Important Underground Sites for Bats

- Confirms the importance of the EUROBATS list of underground habitats as a contribution to the maintenance of populations of European bats
- Strongly encourages Parties and Range States that have not yet identified their most important underground habitats to do so
- For sites that are already listed, encourages Parties and Range States to submit updated counts of bats at each site
- Urges Parties to ensure that the important underground habitats they
 have identified are fully protected by law and, where appropriate, are
 physically protected against unauthorised entry
- Urges Parties and encourages Range States to inform the Secretariat of listed sites that have been damaged or destroyed and the reasons for this loss

Underground sites: compliance monitoring

In July 2021, the Green Balkans informed the Secretariat about the installation of improper grilles at two important caves in Bulgaria. It was done as part of the "Life under one roof" LIFE project without previous impact assessment.





Distance between bars: 19 x 50 cm (useless to prevent access).

Grilles were susceptible to vandalism and made of low-quality rebar steel



Underground sites: compliance monitoring

Species in Aina-Ini and Samara caves according to the EUROBATS database: Rhinolophus blasii, R. euryale, R. ferrumequinum, R. hipposideros, R. mehelyi, M. capaccinii, M. emarginatus, M. myotis and Miniopterus schreibersii.

These species could be deterred by grilles and fences should be installed at such

sites!

Monitoring done by the Green Balkans after indicated dramatic decline in numbers for both caves. Only 1 bat found in Samara cave instead of 118 previously reported!



The EUROBATS Secretariat immediately communicated the issue to the Bulgarian Ministry of Environment and Water. Grilles at caves were removed in August 2021.

COVID Emergency Response: notification sent to 132 governments

- 1. Bats do not spread COVID-19. COVID-19 is being transmitted from humans to other humans.
- 2. There is no evidence that bats directly infected humans with COVID-19 in the first place.
- 3. Bats provide enormous benefits including pollination, seed dispersal and pest control, worth billions of dollars annually.
- 4. Much more needs to be done to ensure the survival of bats around the world.
- 5. Killing of bats will not have any effects on the spread of COVID-19, whereas it would adversely affect the conservation status of bat populations.



Convention on the Conservation of Migratory Species of Wild Animals

Agreement on the Conservation of African-Eurasian Migratory Waterbirds

Agreement on the Conservation of Populations of European Bats

NOTIFICATION TO THE PARTIES

CMS 2020/005 AEWA 2020/002 EUROBATS 2020/001

JROBATS 2020/001

FACTS ABOUT BATS AND COVID-19

As efforts are stepping up around the world to prevent the further spread of the coronavirus disease (COVID-19), there have been numerous reports that various communities and governmental authorities in several regions of the world have been culling bats in a misplaced effort to combat the disease.

Through this joint notification, the Secretariats of the Convention on the Conservation of Migratory Species of Wild Animals (CMS), the Agreement on the Conservation of Populations of European Bats (EUROBATS) and the Agreement on the Conservation of African-Eurasian Migratory Waterbirds (AEWA) are bringing this alarming situation to the aftention of all of our Parties and partners, to seek help in taking action to address such activities. To that end, the three Secretariats, in consultation with bat experts in the CMS Family, have orepeared the following factual points for further dissemination:

- 1. Bats do not spread COVID-19. COVID-19 is being transmitted from humans to other humans
- There is no evidence that bats directly infected humans with COVID-19 in the first place. Scientific investigations are pointing to a chain of events that may have involved bats but most likely only through an intermediate animal.
- There are some 1,400 bat species living in the wild around the world. Many have adapted to urban ervironments, living in backyard gardens, urban parks and even roosting under bridges, without posing the slightest threat to their human neighbours.
- Bats provide enormous benefits including pollination, seed dispersal and pest control, worth billions
 of dollars annually.
- 5. Many bat species are in trouble and need our help to survive. Dozens of bat species are protected by CMS and EUROBATS. But much more needs to be done to ensure the survival of bats around the world. While the killing of bats will not have any effects on the spread of COVID-19, it would adversely affect the conservation status of bat populations.
- A similar misdirected focus occurred at the height of the 2006 avian influenza, with calls for widespread culling of migratory waterbirds and the draining of their wetland habitats.



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Recommendations of the EUROBATS Advisory Committee on potential risks of SARS-CoV-2 transmission from humans to bats (11.05.2020)

To researchers and volunteers participating in monitoring:

- relevant authorities should consider if activities involving close contact with bats could be postponed or continued
- a bat worker diagnosed with COVID-19, showing symptoms or exposed to a
 person with known infection should not undertake any form of bat survey or
 handling of animals (including bats in care)
- Wearing masks, washing hands and washing and disinfecting equipment used in bat rehabilitation or to process bats in the field (callipers, balances etc).
 before and after use

To cavers and other visitors to underground sites with bats:

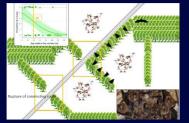
- avoid visiting such sites or parts of the underground site in times when they are inhabited by bat colonies
- keep the maximum possible distance from individual roosting bats

No evidence of human-bat transmission in Europe (1.10.2021)

New guidelines under development by the EUROBATS AC

Guidance on the impact on bats of roads and other traffic infrastructure





Guidelines for Bats, Insulation and Lining Materials

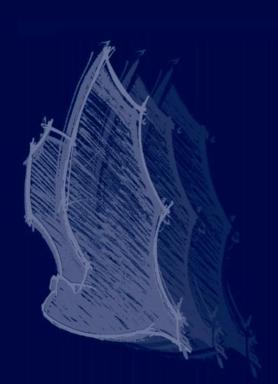




Review of Purpose-built Roosts for European Bats







Anniversary materials for ordering on our website

www.eurobats.org

