



## **EUROBATS**

### **EUROBATS National Implementation Report MoP9**

This questionnaire reflects obligations of the Parties listed in Resolution 8.11 Implementation of the Conservation and Management Plan (2019 - 2022) and other effective Resolutions.

In case of technical issues and questions, please use a support center button in the bottom before contacting the Secretariat.

## A. General Information

Name of your country

>>> Italy

Period covered by this report

>>> 2019-2022

Is your country a party to EUROBATS Agreement?

*Please select only one option*

Yes

No

Competent authority

Title, address, phone, fax, e-mail and other contact details

>>> Ministry of the environment and energy security

General Directorate for biodiversity and sea protection (TBM)

Via Cristoforo Colombo, 44 - 00147 - Roma

TBM-UDG@mase.gov.it

Personal details of administrative focal point (s)

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Please give details of designated scientific focal points

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Via Ca' Fornacetta n.9, 40064 Ozzano dell'Emilia (BO)

## Range state information

Please describe the situation with ratification of EUROBATS Agreement by your country

>>>

## Bats species which occur in the territory

Please select only species which were recorded from your country

### Species: *Rousettus aegyptiacus* (Geoffroy, 1810)

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: *Taphozous nudiventris* Cretzschmar, 1830

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

## **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

## **Species: Rhinolophus blasii Peters, 1866**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>> Last confirmed record for this species on the Italian territory dates back to 1927 (Trieste province).

Other

>>>

### **Conservational status**

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> RE, Regionally Extinct

Year of the Red List assesment

>>> 2022

## **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

## **Species: Rhinolophus euryale Blasius, 1853**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

Extinct

>>>

Other

>>>

### **Conservational status**

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> VU, vulnerable

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>> [https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349\\_2021\\_direttive\\_natura\\_def.pdf](https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349_2021_direttive_natura_def.pdf)

## **Species: Rhinolophus ferrumequinum (Schreber, 1774)**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> VU, vulnerable

Year of the Red List assesment

>>> 2022

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

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## Species: Rhinolophus hipposideros (Borkhausen, 1797)

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> EN, Endangered

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

### **Species: Rhinolophus mehelyi Matschie, 1901**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

#### **Conservational status**

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> EN, endangered

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

## **Species: *Barbastella barbastellus* (Schreber, 1774)**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

### **Conservational status**

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> EN, Endangered

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

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## **Species: *Barbastella caspica* Satunin, 1908**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: *Eptesicus ognevii* Bobrinskoi, 1918

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

### **Species: Eptesicus nilssonii (Keyserling & Blasius, 1839)**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

#### **Conservational status**

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> LC, Least concern

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

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## **Species: Eptesicus anatolicus Felten, 1971**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

### **Conservational status**

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## **Species: Eptesicus isabellinus (Temminck, 1840)**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: *Eptesicus serotinus* (Schreber, 1774)

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> NT, Near Threatened

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

### **Species: Hypsugo savii (Bonaparte, 1837)**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

#### **Conservational status**

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> LC, Least Concern

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

## **Species: Myotis alcathoe von Helversen & Heller, 2001**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

Extinct

>>>

Other

>>>

### **Conservational status**

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> DD, Data Deficient

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

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## **Species: Myotis davidii (Peters, 1869)**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: *Myotis bechsteinii* (Kuhl, 1817)

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> EN, Endangered

Year of the Red List assesment

>>> 2022

## **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

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## **Species: Myotis blythii (Tomes, 1857)**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

### **Conservational status**

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> VU, Vulnerable

Year of the Red List assesment

>>> 2022

## **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report  
>>>

### **Species: Myotis brandtii (Eversmann, 1845)**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

#### **Conservational status**

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> DD, Data Deficient

Year of the Red List assesment

>>> 2022

#### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

### **Species: Myotis capaccinii (Bonaparte, 1837)**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> EN, Endangered

Year of the Red List assesment

>>> 2022

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: Myotis dasycneme (Boie, 1825)

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

## **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

## **Species: Myotis daubentonii (Kuhl, 1817)**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

### **Conservational status**

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> LC, Least Concern

Year of the Red List assesment

>>> 2022

## **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

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## **Species: Myotis emarginatus (Geoffroy, 1806)**

### **Status of the species within the territory**

#### Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

### **Conservational status**

#### Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

#### Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> NT, Near Threatened

#### Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## **Species: Myotis escalerae Cabrera, 1904**

### **Status of the species within the territory**

#### Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: Myotis myotis (Borkhausen, 1797)

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> VU, Vulnerable

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

### **Species: Myotis mystacinus (Kuhl, 1817)**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

#### **Conservational status**

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> VU, Vulnerable

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

## **Species: Myotis nattereri (Kuhl, 1817)**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

### **Conservational status**

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## **Species: Myotis punicus Felten, 1977**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> VU, Vulnerable

Year of the Red List assesment

>>> 2022

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: *Myotis schaubi* Kormos, 1934

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

## **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## **Species: Nyctalus azoreum (Thomas, 1901)**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

### **Conservational status**

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

## **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: *Nyctalus lasiopterus* (Schreber, 1780)

### Status of the species within the territory

#### Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

### Conservational status

#### Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

#### Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> EN, Endangered

#### Year of the Red List assesment

>>> 2022

### Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>> [https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349\\_2021\\_direttive\\_natura\\_def.pdf](https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349_2021_direttive_natura_def.pdf)

## Species: *Nyctalus leisleri* (Kuhl, 1817)

### Status of the species within the territory

#### Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> NT, Near Threatened

Year of the Red List assesment

>>> 2022

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>> [https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349\\_2021\\_direttive\\_natura\\_def.pdf](https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349_2021_direttive_natura_def.pdf)

## Species: Nyctalus noctula (Schreber, 1774)

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> VU, Vulnerable

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>> [https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349\\_2021\\_direttive\\_natura\\_def.pdf](https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349_2021_direttive_natura_def.pdf)

### **Species: Otonycteris hemprichii Peters, 1859**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

#### **Conservational status**

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

### **Species: Pipistrellus hanaki Hulva & Benda, 2004**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

#### **Conservational status**

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

#### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

### **Species: Pipistrellus kuhlii (Kuhl, 1817)**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> LC, Least Concern

Year of the Red List assesment

>>> 2022

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: **Pipistrellus maderensis (Dobson, 1878)**

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

### **Species: Pipistrellus nathusii (Keyserling & Blasius, 1839)**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

#### **Conservational status**

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> the species in the national red data list or similar document

>>> NT, Near Threatened

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report  
>>> [https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349\\_2021\\_direttive\\_natura\\_def.pdf](https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349_2021_direttive_natura_def.pdf)

### **Species: Pipistrellus pipistrellus (Schreber, 1774)**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

#### **Conservational status**

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> LC, Least Concern

Year of the Red List assesment

>>> 2022

#### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

### **Species: Pipistrellus pygmaeus (Leach, 1825)**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> NT, Near Threatened

Year of the Red List assesment

>>> 2022

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: Plecotus auritus (Linnaeus, 1758)

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> NT, Near Threatened

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>> [https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349\\_2021\\_direttive\\_natura\\_def.pdf](https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349_2021_direttive_natura_def.pdf)

### **Species: Plecotus austriacus (Fischer, 1829)**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

#### **Conservational status**

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> NT, Near Threatened

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>> Based on recent work (D.Russo pers comm) for the Pantelleria National Park, the species and its roosts are at high risk due to human disturbance and wildfires, and the insular population is very small.

[https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349\\_2021\\_direttive\\_natura\\_def.pdf](https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349_2021_direttive_natura_def.pdf)

## **Species: Plecotus kolombatovici Dulic, 1980**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

### **Conservational status**

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> N.A.

Year of the Red List assesment

>>> 2022

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>> So far, only one individuals (stranded on a beach) was found: Ancillotto, L., Mori, E., Bosso, L., Agnelli, P. and Russo, D., 2019. The Balkan long-eared bat (*Plecotus kolombatovici*) occurs in Italy-first confirmed record and potential distribution. *Mammalian Biology*, 96, pp.61-67.

It is therefore difficult to support the presence of a stable population in the country.

## **Species: Plecotus macrobullaris Kuzyakin, 1965**

### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> of the species in the national red data list or similar document

>>> EN, Endangered

Year of the Red List assesment

>>> 2022

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>> [https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349\\_2021\\_direttive\\_natura\\_def.pdf](https://www.isprambiente.gov.it/files2021/pubblicazioni/rapporti/rapporto-349_2021_direttive_natura_def.pdf)

## Species: Plecotus sardus Mucedda, Kiefer, Pidinchedda & Veith, 2002

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

## Conservational status

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

#### Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> >>> CR, Critically Endangered

Year of the Red List assesment

>>> 2022

#### Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

#### Species: **Plecotus teneriffae Barrett-Hamilton, 1907**

#### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

#### Conservational status

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

#### Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

#### Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

Please select only one option

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: **Vespertilio murinus Linnaeus, 1758**

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation
- Occasional

>>>

- Extinct

>>>

- Other

>>>

### Conservational status

Overall national trend

- Not studied
- Negative
- Stable
- Positive
- Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> DD, Data DDeficient

Year of the Red List assesment

>>> 2022

### Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

Please select only one option

- Yes
- No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: **Miniopterus pallidus Thomas, 1907**

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

- Resident: breeding
- Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

### **Conservational status**

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>>

Year of the Red List assesment

>>>

### **Natura2000 or Emerald reports**

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

### **Species: *Miniopterus schreibersii* (Kuhl, 1817)**

#### **Status of the species within the territory**

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

### **Conservational status**

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

## Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> VU, Vulnerable

Year of the Red List assesment

>>> 2022

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

Yes

No

If yes, explain reasons for changes or provide a link to the report

>>>

## Species: Tadarida teniotis (Rafinesque, 1814)

### Status of the species within the territory

Status of occurrence

Please give details if the species is not resident. E.g. year of extinction, description of occasional findings etc. Text boxes are expandable.

Resident: breeding

Resident: hibernation

Occasional

>>>

Extinct

>>>

Other

>>>

### Conservational status

Overall national trend

Not studied

Negative

Stable

Positive

Indeterminate

Status in the National Red List

Please indicate status of the species in the national red data list or similar document

>>> LC, Least Concern

Year of the Red List assesment

>>> 2022

## Natura2000 or Emerald reports

Has the national status reported under the Article 17 of the Habitat Directive(2019) or for the Emerald network (non-EU countries) changed since the previous assessment?

*Please select only one option*

- Yes  
 No

If yes, explain reasons for changes or provide a link to the report  
>>>

## 1. Legal Requirements

### Resolution 4.6. Guidelines for the issue of permits for the capture and study of captured wild bats

Does the system of permits or licenses for the capture of bats exist in your country?

*Please select only one option*

- Yes  
 No

System of permits or licences for the keeping of bats for educational or animal welfare purposes

*Please select only one option*

- In place  
 Doesn't exist

System of permits or licences for sampling, ringing, killing of bats for scientific study

*Please select only one option*

- Exists  
 Doesn't exist

#### Comments

>>> Permits are released according to art 16 of the Habitats Directive and national law n. 157/92. Regional authorities have issued permits that authorise rehabilitation centres to use animals that cannot be returned to their natural habitat for educational purposes, allowing them to be kept and used for this aim.

### Resolution 6.5. Guidelines on ethics for research and field work practices

National Code of Practice that addresses the context and legitimacy of acquisition, due diligence, long-term care, documentation, relevance and institutional aims

*Please select only one option*

- Exists  
 Doesn't exist

Please give details or provide links

>>>

Other activities carried out under this resolution (optional)

>>> Ethical aspects of bat research and management are covered by National Research Institute ISPRA. All projects involving bat capture or handling must be approved by the Ministry of the Environment and energy security, based on scientific advice provided by ISPRA on project-based assessments.

Please, give details of the legislation which is protecting bats

>>> Laws n. 503/1981, 42/1983, 157/1992, and 104/2005.

Decrees of the President of the Republic n.357/1997, n.120/2003 and n.152/2006.

Which species are not protected and why?

>>>

## 2. Population survey and monitoring

### Resolution 2.2. Consistent monitoring methodologies

Implementation of EUROBATS guidelines published in EUROBATS Publication n°5 to ensure consistency and information exchange between Parties and Range States

*Please select only one option*

- Yes  
 No

Please give details

>>> The official document available for Italy is older than EUROBATS Publication No. 5. Nevertheless, several key points are shared between the two publications. While there has not been full implementation, a

methodological document is already available, both in Italian and English, and is well-known among bat workers. In the event of an update to the monitoring guidelines in the coming years, Italy will duly consider the EUROBATS publication.

#### **Resolution 5.4. Monitoring bats across Europe**

Involvement in a long-term pan-European surveillance to provide trend data

*Please select only one option*

- Yes  
 No

#### **Involvement details**

Please, give details of involvement

>>>

Awareness-raising of the importance of underground sites

*Please select only one option*

- Yes  
 No

Collaboration and information exchange with other Parties and range states on surveillance and monitoring activities

*Please select only one option*

- Yes  
 No

Please provide details

>>>

Monitoring bats in accordance with EUROBATS Publication n°5

*Please select only one option*

- Yes  
 No

Capacity building of bat workers and surveyors to support the undertaking of bat surveillance projects

*Please select only one option*

- Exists  
 Doesn't exist

Other activities under Resolution 5.4.

>>> Capacity building is mostly developed by universities. In the last decade, bat detector and bioacoustics training courses were held in cooperation with the Belgian Museum of Natural History within the DEST (Distributed European School of Taxonomy) programme. <http://batsound.com/?p=134>

#### **Resolution 6.13. Bats as indicators for biodiversity**

Does your country support a development of national, regional and pan-European biodiversity indicators for appropriate target audiences, using bat data

*Please select only one option*

- Yes  
 No

Please provide details

>>>

Bat data is incorporated within high profile national multi-taxa indicators

*Please select only one option*

- Yes  
 No

Body in charge for gathering the data for these indicators

>>>

Cooperation platforms that facilitate the required data exchange

*Please select only one option*

- Exist

Don't exist

Please specify or give links

>>> National network on biodiversity (Network Nazionale della Biodiversità - NNB) has a database on bats:  
<https://www.nnb.isprambiente.it/it/il-network/banche-dati/db-collezione-chiroterteri>

Other activities carried out under this resolution (optional)

>>> Research on the use of bats as bioindicators in riparian habitats and forests is ongoing in the country.

Some references as follows:

Russo, D., Salinas-Ramos, V.B., Cistrone, L., Smeraldo, S., Bosso, L. and Ancillotto, L., 2021. Do we need to use bats as bioindicators?. *Biology*, 10(8), p.693. <https://www.mdpi.com/2079-7737/10/8/693>

De Conno, C., Nardone, V., Ancillotto, L., De Bonis, S., Guida, M., Jorge, I., Scarpa, U. and Russo, D., 2018. Testing the performance of bats as indicators of riverine ecosystem quality. *Ecological Indicators*, 95, pp.741-750. <https://www.sciencedirect.com/science/article/pii/S1470160X18306174>

Cistrone L. et al. (2015). The effect of thinning on bat activity in Italian high forests: the LIFE+ "ManFor C.BD." experience. *Hystrix It. J. Mamm.* 2015;26(2):125-131. <http://www.italian-journal-of-mammalogy.it/The-effect-of-thinning-on-bat-activity-in-Italian-high-forests-the-LIFE-ManFor-C,77179,0,2.html>

## **Resolution 7.7. Bat conservation and sustainable forest management**

National guidance has been developed based on the principles in the EUROBATS Bats and Forestry leaflet

*Please select only one option*

Yes

No

Please attach a file or provide a link

>>>

Examples of best practice for forest management are submitted to the Secretariat

*Please select only one option*

Yes

No

If no, provide explanations or give links to available examples

>>> Although best practice cases have not been submitted to the Secretariat, national parks such as the Abruzzo Lazio and Molise National Park systematically apply guidelines arising from studies carried out on forest bats to make sure forest management is bat sustainable.

Research in forest management that is sustainable for bats (attach file or provide links)

>>> A specific research was done to investigate the effects of forest management on bats. A paper on the subjects was published: <http://www.italian-journal-of-mammalogy.it/The-effect-of-thinning-on-bat-activity-in-Italian-high-forests-theLIFE-ManFor-C,77179,0,2.html>

Moreover, research is ongoing on the importance of old forest stands for bats, with special reference to barbastelles. More recently, research has also covered giant and common noctules in NE Italy.

Some key references:

<https://www.sciencedirect.com/science/article/pii/S0006320703002660>

<https://onlinelibrary.wiley.com/doi/full/10.1111/j.2005.0906-7590.04343.x>

<https://link.springer.com/article/10.1007/s10531-014-0802-7>

<https://zslpublications.onlinelibrary.wiley.com/doi/full/10.1111/jzo.12271>

<https://link.springer.com/article/10.1007/s10531-010-9856-3>

<https://onlinelibrary.wiley.com/doi/full/10.1002/ece3.3111>

<https://www.sciencedirect.com/science/article/pii/S0378112723002876>

Other activities carried out under this resolution (optional)

>>>

## **Resolution 7.10. Bat Rescue and Rehabilitation**

Animal rescue and rehabilitation systems are effective in the country

*Please select only one option*

Yes

No

Collaboration between bat rehabilitators and scientists

*Please select only one option*

Exists

Doesn't exist

## Provide examples of collaboration

>>> Cooperation is evidenced by several scientific articles on bat conservation and behavior published in recent years, which have focused on bats that had been rehabilitated or were currently undergoing rehabilitation.

Examples include:

Serangeli M.T., Cistrone L., Ancillotto L., Tomassini A. & Russo D. (2012). The post-release fate of hand-reared orphaned bats: survival and habitat selection. *Animal Welfare* 21: 9-18.

Ancillotto L., Serangeli M.T. & Russo D. (2012). Spatial proximity between newborns influences the development of preferred social relationships. *Ethology* 118: 1-10.

Ancillotto L., Serangeli M.T. & Russo D. (2013). Curiosity killed the bat: Domestic cats as bat predators. *Mammalian Biology* 78: 369-373.

Ancillotto L. & Russo D. (2014). Selective aggressiveness in European free-tailed bats (*Tadarida teniotis*): influence of familiarity, age and sex. *Naturwissenschaften* 101: 221-228.

Ancillotto L., Allegrini C., Serangeli M.T., Jones G. & Russo D. (2015). Sociality across species: spatial proximity of newborn bats promotes heterospecific social bonding. *Behavioral Ecology* 26: 293-299.

Salinas-Ramos, V.B., Tomassini, A., Ferrari, F., Boga, R. and Russo, D., 2023. Admittance to Wildlife Rehabilitation Centres Points to Adverse Effects of Climate Change on Insectivorous Bats. *Biology*, 12(4), p.543.

## Bat rehabilitators submit their data to a national database

*Please select only one option*

Yes

No

## Please provide information about this database

>>>

## Other activities carried out under Resolution 7.10 (optional)

>>> The Italian Chiroptera Research Group website offers guidelines on how to provide first aid to bats and a list of rehabilitators and bat experts that may assist the public when a bat is found (<https://www.mammiferi.org/girc/recupero-chiropteri/>).

The NGO "Tutela Pipistrelli" and "Bat World Italy" are also very active in the field of bat rehabilitation.

A webinar on the topic was held in 2022:

[https://www.facebook.com/watch/live/?ref=watch\\_permalink&v=734738631172801](https://www.facebook.com/watch/live/?ref=watch_permalink&v=734738631172801)

## Resolution 7.12. Priority species for autecological studies

### Priority Species

#### **Rhinolophus blasii Peters, 1866**

Some studies have been conducted (are ongoing) for this species in the country

*Please select only one option*

Yes

No

## The species occurs in the country and some studies have been done

Studies on:

	Swarming sites	Winter roosts	Summer roosts	Migration	Spatial and habitat use	Foraging behaviour	Diet
Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please add below or attach a list of references

>>> The species is deemed to be extinct in the country. However, some bat specialists (Dr Luca Lapini and Andrea Pereswiet-Soltan) have been conducting surveys to double-check the real absence of this species in Italy. We are not aware of any publication.

### Priority Species

#### **Eptesicus isabellinus (Temminck, 1840)**

Some studies have been conducted (are ongoing) for this species in the country

*Please select only one option*

Yes

No

## The species occurs in the country and some studies have been done

Studies on:

	Swarming sites	Winter roosts	Summer roosts	Migration	Spatial and habitat use	Foraging behaviour	Diet
Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please add below or attach a list of references

>>>

### Priority Species

#### **Myotis escalerae Cabrera, 1904**

Some studies have been conducted (are ongoing) for this species in the country

*Please select only one option*

Yes

No

## The species occurs in the country and some studies have been done

Studies on:

	Swarming sites	Winter roosts	Summer roosts	Migration	Spatial and habitat use	Foraging behaviour	Diet
Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please add below or attach a list of references

>>>

### Priority Species

#### **Nyctalus azoreum (Thomas, 1901)**

Some studies have been conducted (are ongoing) for this species in the country

*Please select only one option*

Yes

No

## The species occurs in the country and some studies have been done

Studies on:

	Swarming sites	Winter roosts	Summer roosts	Migration	Spatial and habitat use	Foraging behaviour	Diet
Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please add below or attach a list of references

>>>

### Priority Species

#### **Nyctalus lasiopterus (Schreber, 1780)**

Some studies have been conducted (are ongoing) for this species in the country

*Please select only one option*

Yes

No

## The species occurs in the country and some studies have been done

Studies on:

	Swarming sites	Winter roosts	Summer roosts	Migration	Spatial and habitat use	Foraging behaviour	Diet
Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please add below or attach a list of references

>>> Russo, D., Mäenurm, A., Martinoli, A., Zotti, M. and Cistrone, L., 2023. Forest islands in farmland provide vital roost trees year-round for giant and common noctule bats: Management implications. *Forest Ecology and Management*, 540, p.121053.

### Priority Species

#### Pipistrellus hanaki Hulva & Benda, 2004

Some studies have been conducted (are ongoing) for this species in the country

Please select only one option

Yes

No

### The species occurs in the country and some studies have been done

Studies on:

	Swarming sites	Winter roosts	Summer roosts	Migration	Spatial and habitat use	Foraging behaviour	Diet
Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please add below or attach a list of references

>>> Pipistrellus hanaki is NOT present in Italy, but Prof. Danilo Russo has worked together with Dr Panagiotis Georgiakakis at Natural History Museum of Crete to investigate the ecology and behaviour of this species: Georgiakakis, P., Poursanidis, D., Kantzaridou, M., Kontogeorgos, G. and Russo, D., 2018. The importance of forest conservation for the survival of the range-restricted Pipistrellus hanaki, an endemic bat from Crete and Cyrenaica. *Mammalian Biology*, 93, pp.109-117.  
Georgiakakis, P. and Russo, D., 2012. The distinctive structure of social calls by Hanák's dwarf bat Pipistrellus hanaki. *Acta Chiropterologica*, 14(1), pp.167-174

### Priority Species

#### Pipistrellus maderensis (Dobson, 1878)

Some studies have been conducted (are ongoing) for this species in the country

Please select only one option

Yes

No

### The species occurs in the country and some studies have been done

Studies on:

	Swarming sites	Winter roosts	Summer roosts	Migration	Spatial and habitat use	Foraging behaviour	Diet
Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please add below or attach a list of references

>>> The species is NOT present in Italy, but Prof. Danilo Russo has studied it in Madeira, in collaboration with Portuguese colleagues:  
Russo, D., Teixeira, S., Cistrone, L., Jesus, J., Teixeira, D., Freitas, T. and Jones, G., 2009. Social calls are subject to stabilizing selection in insular bats. *Journal of Biogeography*, 36(12), pp.2212-2221.  
Teixeira, S., Smeraldo, S. and Russo, D., 2023. Unveiling the Potential Distribution of the Highly Threatened

Madeira Pipistrelle (*Pipistrellus maderensis*): Do Different Evolutionary Significant Units Exist?. *Biology*, 12(7), p.998.

**Priority Species**  
**Plecotus kolombatovici Dulic, 1980**

Some studies have been conducted (are ongoing) for this species in the country

*Please select only one option*

- Yes  
 No

**The species occurs in the country and some studies have been done**

Studies on:

	Swarming sites	Winter roosts	Summer roosts	Migration	Spatial and habitat use	Foraging behaviour	Diet
Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please add below or attach a list of references

>>> Ancillotto, L., Mori, E., Bosso, L., Agnelli, P., & Russo, D. (2019). The Balkan long-eared bat (*Plecotus kolombatovici*) occurs in Italy-first confirmed record and potential distribution. *Mammalian Biology*, 96, 61-67.

**Priority Species**  
**Plecotus sardus Mucedda, Kiefer, Pidinchedda & Veith, 2002**

Some studies have been conducted (are ongoing) for this species in the country

*Please select only one option*

- Yes  
 No

**The species occurs in the country and some studies have been done**

Studies on:

	Swarming sites	Winter roosts	Summer roosts	Migration	Spatial and habitat use	Foraging behaviour	Diet
Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please add below or attach a list of references

>>> Ancillotto, L., Fichera, G., Pidinchedda, E., Veith, M., Kiefer, A., Mucedda, M. and Russo, D., 2021. Wildfires, heatwaves and human disturbance threaten insular endemic bats. *Biodiversity and Conservation*, 30, pp.4401-4416. <https://link.springer.com/article/10.1007/s10531-021-02313-5>  
Bosso, L., Mucedda, M., Fichera, G., Kiefer, A. and Russo, D., 2016. A gap analysis for threatened bat populations on Sardinia. *Hystrix*, 27(2), p.212. <http://www.italian-journal-of-mammalogy.it/A-gap-analysis-for-threatened-bat-populations-onSardinia,77157,0,2.html>

**Priority Species**  
**Plecotus teneriffae Barrett-Hamilton, 1907**

Some studies have been conducted (are ongoing) for this species in the country

*Please select only one option*

- Yes  
 No

**The species occurs in the country and some studies have been done**

Studies on:

	Swarming sites	Winter roosts	Summer roosts	Migration	Spatial and habitat use	Foraging behaviour	Diet
Yes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please add below or attach a list of references

>>>

Other activities carried out under Resolution 7.12 (optional)

>>>

### **Resolution 8.3. Monitoring of daily and seasonal movements of bats**

#### **Studies on daily/seasonal movements**

##### References

Provide references to completed or ongoing studies on daily/seasonal movements of bats in your country in the text field below or attach a file

>>> Ancillotto L., Cistrone L., Mosconi F., Jones G., Boitani L. & Russo D. (2015). The importance of non-forest landscapes for the conservation of forest bats: lessons from barbastelles (*Barbastella barbastellus*). *Biodiversity and Conservation* 24: 171-185.

Ancillotto, L., Budinski, I., Nardone, V., Di Salvo, I., Della Corte, M., Bosso, L., Conti, P. and Russo, D., 2018. What is driving range expansion in a common bat? Hints from thermoregulation and habitat selection. *Behavioural processes*, 157, pp.540-546.

Nardone V., Cistrone L., Di Salvo I., Ariano A., Migliozi A., Allegrini C., Ancillotto L., Fulco A. & Russo D. (2015) How to be a male at different elevations: ecology of intra-sexual segregation in the trawling bat *Myotis daubentonii*. *PLoS ONE* 10(7): e0134573. doi: 10.1371/journal.pone.0134573.

Dondini et al (2012) Long distance migration of female Leisler's bat (*Nyctalus leisleri*) from Italy to Poland. *Hystrix* 23(2):95-96 <http://www.italian-journal-of-mammalogy.it/Long-distance-migration-of-female-Leisler-s-bat-Nyctalus-leislerifrom-Italy-to-Poland,77268,0,2.html>

The following paper is indirectly related to the seasonal movement as it focuses on the breeding range limits: Ancillotto L. & Russo D. (2014). Reassessing the breeding range limits for two long-distance migratory vespertilionid bats, *Pipistrellus nathusii* and *Nyctalus leisleri* in the Italian Peninsula. *Mammalia* 79: 245-248. Salinas-Ramos, V.B., Ancillotto, L., Cistrone, L., Nastasi, C., Bosso, L., Smeraldo, S., Cordero, V.S. and Russo, D., 2021. Artificial illumination influences niche segregation in bats. *Environmental Pollution*, 284, p.117187.

The following paper is indirectly related to seasonal movement as it focuses on the breeding range limits: Ancillotto L. & Russo D. (2014). Reassessing the breeding range limits for two long-distance migratory vespertilionid bats, *Pipistrellus nathusii* and *Nyctalus leisleri* in the Italian Peninsula. *Mammalia* 79: 245-248.

### **Resolution 8.4 Wind Turbines and Bat Populations**

Raising awareness on the impact of turbines on bats and the existence of some unsuitable habitats or sites for construction

*Please select only one option*

- Yes  
 No

If yes, how?

>>> NGOs such as GIRC and Tutela Pipistrelli raise public awareness on the potential impact of wind turbines on bats.

Are impact assessment procedures and post-construction monitoring undertaken by appropriately experienced experts?

*Please select only one option*

- Yes  
 No

Please, give details

>>> State and local authorities are responsible for evaluating environmental impact of new works (<https://www.snpambiente.it/snpa/valutazione-di-impatto-ambientale-norme-tecniche-per-la-redazione-degli-studi-di-impatto-ambientale/>) and monitoring projectn (<https://va.mite.gov.it/IT/DatiEStrumenti/MetadatoRisorsaCondivisione/1da3d616-c0a3-4e65-8e48-f67bc355957a>)

National guidelines have been developed following Eurobats Pub. No. 6

*Please select only one option*

- Yes  
 No

Please, attach a file or or provide a link

>>> [https://www.mammiferi.org/wp-content/uploads/2018/10/LG\\_eolico.pdf](https://www.mammiferi.org/wp-content/uploads/2018/10/LG_eolico.pdf)

National guidelines are implemented

*Please select only one option*

- Yes  
 No  
 Partially

Please, provide implementation details

>>> The authorities responsible for examining the environmental impact studies may check that the guidelines are appropriately followed in studies, but this is not mandatory.

Investigations and research for mitigating bat mortality have been undertaken

*Please select only one option*

- Yes  
 No

Please, list references, attach reports and articles

>>> Roscioni F., Russo D., Di Febbraro M., Frate L., Carranza M.L. & Loy A. (2013). Regional-scale modelling of the cumulative impact of wind farms on bats. *Biodiversity and Conservation* 22: 1821-1835  
Roscioni F., Rebelo H., Russo D., Carranza M.L., Di Febbraro M. & Loy A. (2014). A modelling approach to infer the effects of wind farms on landscape connectivity for bats. *Landscape Ecology* 29: 891-903.

Ducci, L., Roscioni, F., Carranza, M.L., Agnelli, P., Russo, D., Frate, L., Loy, A., Santini, G. and Di Febbraro, M., 2019. The role of protected areas in preserving habitat and functional connectivity for mobile flying vertebrates: the common noctule bat (*Nyctalus noctula*) in Tuscany (Italy) as a case study. *Biodiversity and Conservation*, 28, pp.1569-1592.

Post-construction monitoring, if possible, is undertaken by suitably experienced bat experts

If yes, give details

*Please select only one option*

- Yes

>>>

- No

Developers of wind energy projects and responsible authorities make raw data from impact assessment and post-construction monitoring available for independent analysis.

*Please select only one option*

- Yes  
 No

Please, list references, attach reports and articles

>>>

Measures such as blade feathering, higher turbine cut-in wind speeds and shutting down turbines are implemented

*Please select only one option*

- Yes  
 No

Please, provide details

>>>

Other activities carried out under Resolution 7.5 (optional)

>>>

## **Resolution 8.10 Recommended Experience and Skills of Experts with regard to Quality of Assessments**

## Compliance with Annex to Resolution 8.10

Experts/groups of experts carrying out assessment of projects, plans and programmes on populations of European bats meet the minimum standard of skills, knowledge and experience as described in the Annex to Resolution 8.10

*Please select only one option*

- Yes, completely or partially  
 No

### If yes

Please provide details

>>> The skills of personnel involved in bat studies are screened by ISPRA when requests for capture permits are made. However, there is no control over skills of people involving no direct capture of bats such as acoustic recording and identification.

## 3. Roosts

### Resolution 4.5. Guidelines for the use of remedial timber treatment

Small projects to provide basic data to allow an assessment of the potential impact of industry on bat populations

*Please select only one option*

- Yes  
 No

Please provide a list of references

>>>

Raising awareness of product users is taking place

*Please select only one option*

- Yes  
 No

Please provide details

>>>

Legislation on products which have any adverse effects on bats

*Please select only one option*

- Exists  
 Doesn't exist

Please attach documents or provide links

>>> As for pesticides used in the farming industry, Italy has applied the 2009/128/EC Directive on the sustainable use of pesticides.

Comments (optional)

>>> Remedial timber treatment is unlikely to be a major threat to bats in the country given the type of buildings bats often roost in, yet the topic would deserve more attention.

### Resolution 5.7. Guidelines for the protection of overground roosts, with particular reference to roosts in buildings of cultural heritage importance

List of national important overground roosts (including legal/physical protection status)

*Please select only one option*

- Exists  
 Doesn't exist

Please, give details or links

>>> The GIRC (Italian Chiroptera Research Group) carried out, in the past, a "roost project" to record all major bat roosting sites in the country. The relevant information is summarized in the following paper: <http://www.italian-journal-of-mammalogy.it/The-Italian-bat-roost-project-a-preliminary-inventory-of-sites-and-conservation-perspectives,77455,0,2.html>  
The project is no longer active and updating the database would be an important step to take.

National guidelines for custodians of historical buildings on the protection of bat roosts have been

developed

*Please select only one option*

Yes

No

Please attach a file or or provide a link

>>> [https://www.mase.gov.it/sites/default/files/archivio/allegati/biodiversita/linee\\_guida\\_chirotteri\\_edifici.pdf](https://www.mase.gov.it/sites/default/files/archivio/allegati/biodiversita/linee_guida_chirotteri_edifici.pdf)

Summary report on interactions between the relevant cultural and natural heritage agencies (attach a file or provide a description)

>>> The national guidelines report on the management of bat colonies roosting in buildings, with special emphasis on bats in historical buildings.

### **Other activities carried out under this resolution (optional)**

>>>

## **Resolution 7.6. Guidelines for the protection and management of important underground habitats for bats**

List of important underground sites for bats and measures of their protection (including Natura 2000, Emerald or other status) was submitted to EUROBATS

*Please select only one option*

Yes

No

When the latest update was submitted?

>>> 2012

Updated counts of bats at each listed site are submitted to the Secretariat

*Please select only one option*

Yes

No

Management of important underground sites for bats is in accordance with EUROBATS Publication n°2

*Please select only one option*

Yes

No

Provide explanations

>>>

Other relevant activities for the protection of underground habitats

>>> Underground habitats are protected when they fall within the boundaries of national or regional protected areas or in nature reserves, or when in Natura 2000 sites (overall coverage > 20% of the national area). Some sites are also protected thanks to ad-hoc management actions, such as those undertaken in LIFE+ projects or other initiatives.

There is no systematic monitoring plan covering all major underground in Italy, although there are scattered data collected by local authorities and conservation bodies.

## **Resolution 8.5. Conservation and Management of Important Overground Sites for Bats**

Most important overground roosts are identified at the national level considering the guidance on site selection developed by the Advisory Committee and using the national databases.

If yes, please give details

>>> Although there is not a comprehensive database of important overground roosts, those that are known are sometimes monitored and granted protection under the European Habitats Directive.

## **Resolution 8.9. Bats, Insulation and Lining Materials**

Are bats included in the impact assessment of insulation programs at a strategic level?

If yes, please give details

>>> There is increasing attention on the potential conflicts arising between building renovation or construction and bats, yet we believe that in Italy the insulation issue is not relevant, or at least not a significant priority.

Are any actions undertaken to ensure that insulation projects comply with national legislation regarding bat

protection and conservation by implementing appropriate pre-insulation survey and assessment, mitigation and compensation to avoid roost loss and bat mortality?

Please provide information concerning such actions and attach files, if required

>>> This is not a significant issue in Italy due to the climate of most of the country and the construction techniques employed.

## **Resolution 8.12. Purpose-built Man-made Roosts**

Examples provided by the review document included as Annex 1 to Resolution 8.12 are considered whenever new roosting structures are planned or existing structures are renovated for bats

Please give details, if it is the case

>>> While bat boxes are routinely used for local projects or awareness raising, there is no example of purpose-built roosts in Italy.

Are existing purpose-built Bat Roosts monitored and further studies on their effectiveness promoted?

If yes, please give details

>>>

## **4. Habitats**

Click "expand" to see the questions!

## **Resolution 7.8. Conservation and management of critical feeding areas, core areas around colonies and commuting routes**

Are national guidelines which are based on the general guidance given in EUROBATs Publication No. 9 are developed and published? Please provide details or add a file.

>>> No.

Other activities carried out under this resolution (optional)

>>> Perceptions of the importance of feeding sites and commuting routes continue to vary. Parks and nature reserves have implemented initiatives to underscore the significance of these habitats and protect them accordingly. In 2017, the Italian Ministry for the Environment (now MASE) funded a coordinated action involving several of the primary Italian National Parks. This action placed particular emphasis on identifying areas with high species diversity and ecological corridors that, on a larger scale, can facilitate bat movement, dispersal, and gene flow. The project is currently in progress yet the focus has now shifted more on bats in agriculture and ecosystem services.

A significant project focused on the identification of ecological corridors, known as "Azione di Sistema," was funded by the Italian Ministry of the Environment (now MASE) and conducted. This project engaged several prominent national parks, including Vesuvio, Abruzzo Lazio and Molise, Alta Murgia, Gargano, Circeo, Aspromonte, and Arcipelago Toscano. It employed a combination of field surveys and cutting-edge modeling to analyze corridor networks.

## **Resolution 7.9. Impact of roads and other traffic infrastructures on bats**

Bats are taken into account during the planning, construction and operation of roads and other infrastructure projects

*Please select only one option*

Yes

No

Please give details or attach a file with description

>>> There are a few instances where bats have been taken into consideration. One such example is the project for the construction of Motorway A33 Asti-Cuneo (Roddi-Verduno), which has addressed the impact on bats due to its proximity to SCI IT1160029. This site hosts a nursery of *Myotis myotis*, as well as a hibernation site for greater horseshoe bats and *Myotis*. The assessment identified the primary flight paths of the bats through radiotracking approximately 20 reproductive or post-reproductive individuals, in addition to bat detector surveys, to pinpoint locations where bats would intersect with the motorway. The final plan includes mitigation measures such as a bat bridge and several underpasses, with their effectiveness to be evaluated through monitoring.

Pre-construction strategic and environmental impacts assessment procedures are mandatory

*Please select only one option*

Are mandatory

Required occasionally

Don't required

## Post-construction monitoring

Please select only one option

- Is mandatory
- Required occasionally
- Isn't required

Raw data from environmental impact assessment and post-construction monitoring is available for independent scientific analysis

Please select only one option

- Yes
- No

Please list references and attach reports and articles

>>>

Research into the impact of new and, where appropriate, existing roads and other infrastructure on bats and into the effectiveness of mitigation measures

Please select only one option

- Yes
- No

Other activities carried out under Resolution 7.9 (optional)

>>> Reference to National guidelines is made to the following documents :

[https://va.mite.gov.it/File/DocumentoMedia/13710/II\\_gg\\_pma\\_parte\\_generale\\_18122013\\_def.pdf](https://va.mite.gov.it/File/DocumentoMedia/13710/II_gg_pma_parte_generale_18122013_def.pdf)

it takes into account EUROBATS Publications n°3 and n°5

[https://www.gazzettaufficiale.it/do/atto/serie\\_generale/caricaPdf?cdimg=19A0796800100010110001&dgu=2019-12-28&art.dataPubblicazioneGazzetta=2019-12-28&art.codiceRedazionale=19A07968&art.num=1&art.tiposerie=SG](https://www.gazzettaufficiale.it/do/atto/serie_generale/caricaPdf?cdimg=19A0796800100010110001&dgu=2019-12-28&art.dataPubblicazioneGazzetta=2019-12-28&art.codiceRedazionale=19A07968&art.num=1&art.tiposerie=SG)

only when Natura 2000 Sites are involved

## Resolution 8.6. Bats and Light Pollution

Is national guidance taking due account of the EUROBATS Publication Series No. 8 on Bats and Light Pollution developed and promoted? If yes, please give details or attach a file.

>>> No

## 5. Promoting Public Awareness of Bats and their Conservation and Providing Advice

Click "expand" to see the questions!

International Bat Night. Give details for each year: number of events and number of people participated

>>> Bat Nights have been conducted throughout the country and are promoted on the Ministry's website.

<https://www.mase.gov.it/notizie/biodiversita-le-iniziativa-italiane-la-notte-internazionale-dei-pipistrelli>

Details of other important activities which are worth to mention (educational centres, etc.)

>>> The Barrea City Council, in collaboration with the Abruzzo Lazio and Molise National Park and with the expert guidance of Professor Danilo Russo from the Department of Agriculture at the University Federico II, Naples, has created a bat exhibition center. This center is dedicated to educating visitors about the fascinating world of bats and the significance of their conservation.

During the summer months, visitors to the center can observe the daytime activities of a greater horseshoe bat colony through a non-invasive real-time webcam system. This colony is home to over 350 bats and resides in a nearby building.

Information on training and awareness raising for forest managers and workers, farmers, road workers, stakeholders involved in insulation of buildings, etc.

>>> Some national parks have organized meetings with builders and engineers to increase awareness regarding the potential impact of renovation work on bat protection. Italy is also a partner and a primary advocate of the CLIMBATS COST Action ([www.climbats.eu](http://www.climbats.eu)), which is officially supported by EUROBATS. One of its key objectives is to raise awareness among stakeholders about the value of bat ecosystem services in farmland and how these services may be influenced by climate change.

## Resolution 4.11. Recognising the important role of NGOs in bat conservation

Details of NGOs participating in /contributing to bat protection and most valuable activities that have the potential to substantially improve transboundary cooperation and mutual assistance

>>> The GIRC (Italian Chiroptera Research Group) is the largest organization dedicated to bats in Italy, consisting of both bat specialists and enthusiasts. It is a partner of BatLife Europe.

Website: <http://www.pipistrelli.net/>

The NGO "Tutela Pipistrelli" is highly active in the field of bat rehabilitation and conducts awareness campaigns to emphasize the significance of bat protection.

Website: <http://www.tutelapipistrelli.it/5>. Additional actions undertaken to safeguard populations of bats

Bat World Italy: an NGO working on bat rehabilitation and awareness campaigns

<https://www.facebook.com/pspipistrelli>

## **Resolution 8.13. Insect Decline as a Threat to Bat Populations in Europe**

Awareness of the multiple ecological services provided by bats, especially for the agricultural sector and regarding the concerns about the published evidence of dramatic loss of insect biomass in open land is raised with land managers and other stakeholders.

Please, give details

>>> No.

## **6. Insect declines**

### **Resolution 8.13. Insect Decline as a Threat to Bat Populations in Europe**

Activities to encourage and support scientific research on the impact of the insect decline on bat populations

Please give details of such activities.

>>> There has been recent work on bat diet conducted through molecular analysis but no specific work has yet investigated the consequences of insect decline on bat conservation:

Ancillotto, L., Falanga, A., Agostinetto, G., Tommasi, N., Garonna, A.P., de Benedetto, F., Bernardo, U., Galimberti, A., Conti, P. and Russo, D., 2023. Predator-prey traits and foraging habitat shape the diet of a common insectivorous bat. *Acta Oecologica*, 118, p.103890.

Requirements to ensure that bats are being considered in pesticide risk assessments

Please describe these requirements, in case they exist

>>> Italy is part of the EU so the guidelines on pesticide risk assessment are provided by EFSA. In 2019 EFSA has created an ad-hoc working group on the topic, whose bat expert was the Italian focal point Prof. Danilo Russo. The conclusion was that the current risk assessment is unsuitable to cover bats:

EFSA Panel on Plant Protection Products and their Residues (PPR), Hernández-Jerez, A., Adriaanse, P., Aldrich, A., Berny, P., Coja, T., ... & Topping, C. (2019). Scientific statement on the coverage of bats by the current pesticide risk assessment for birds and mammals. *EFSA Journal*, 17(7), e05758.

Describe measures to avoid the use of pesticides, particularly those problematic for bats and their food resources, in and around important areas for bat conservation

Please give details in case such measures have taken place

>>>

## **7. International co-operation**

Implementation of Resolutions 7.10, 7.12, 8.3, 8.7

Please give information on the international cooperation with the aim of implementing the recommendations of Resolutions 7.10, 7.12, 8.3, 8.7.

>>> There is ongoing international cooperation on the general topic of insects, bats, agriculture and climate change. Prof Russo has been the main proposer and chair of a recent COST Action (CA18107 "CLIMBATS") that also tackled the topic of the impact of climate change on bats and their insect prey and the foreseen associated changes in ecosystem services: [www.climbats.eu](http://www.climbats.eu)

## **8. Diseases**

Click "expand" to see the questions!

### **Resolution 5.2. Bat rabies in Europe**

National bat rabies surveillance network

*Please select only one option*

Yes

No

Please give details

>>> The bat rabies surveillance is carried out by national research institutions (Istituti Zooprofilattici

Sperimentali). Details on the institution and FAO reference person in charge are linked below:

<https://www.izsvenezie.it/istituto/contatti/rubrica/de-benedictis-paola/>

A recent case of West Caucasian Bat Lyssavirus was identified in a domestic cat in Italy and investigation were carried out. To our best knowledge, the virus was isolated in the cat but not in the bats yet some *Miniopterus schreibersii* showed antibodies:

Leopardi, S., Barneschi, E., Manna, G., Zecchin, B., Priori, P., Drzewnioková, P., Festa, F., Lombardo, A., Parca, F., Scaravelli, D. and Maroni Ponti, A., 2021. Spillover of west caucasian bat lyssavirus (Wcbv) in a domestic cat and westward expansion in the palearctic region. *Viruses*, 13(10), p.2064.

The cat bit several people before its death, but no health problems in those individuals were reported afterward.

Vaccination of risk groups against rabies is compulsory

*Please select only one option*

Yes

No

Details of the institution(s) in charge of recording of all test results and their submission to the World Health Organisation

>>> Istituto Zooprofilattico Sperimentale delle Venezie

[www.izsvenezie.it](http://www.izsvenezie.it)

Other activities carried out under this resolution (optional)

>>> Guidelines on how to prevent rabies risk for personnel that comes frequently into contact with bats:

<https://www.izsvenezie.it/documenti/comunicazione/materiale-editoriale/2-manuali/lg-rabbia-chiropteri.pdf>

## **Resolution 6.6. Guidelines for the prevention, detection and control of lethal fungal infections in bats**

Surveillance for the presence of fungal infections

*Please select only one option*

Yes

No

Please provide details

>>> Although currently there is no systematic surveillance, the topic was investigated in the recent past, and awareness was raised among speleologists about the existence of this issue and the importance of preventing the spread of fungal diseases.

The fungus was isolated in Italian bats:

<http://www.italian-journal-of-mammalogy.it/First-mycological-investigations-on-italian-bats-,77309,0,2.html>

<https://www.cnr.it/it/news/allegato/1820>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8000523/pdf/jof-07-00192.pdf>

Guidelines for the prevention by GIRC (Italian Chiroptera Research Group):

[https://www.speleo.it/site/images/doc/wns/WNS\\_Procedure\\_Italia\\_GIRC.pdf](https://www.speleo.it/site/images/doc/wns/WNS_Procedure_Italia_GIRC.pdf)

## **9. EUROBATS Projects Initiative (EPI)**

Donations to Eurobats Project Initiative

Has your country provided funding to EPI? Please give details below.

>>> No.

## **10. Climate change**

### **Resolution 8.7. Bats and Climate Change**

Resolution 8.7 Bats and Climate Change

Please provide details on changes in species migration, hibernation, reproductive and range shift patterns and consequent species interactions, if those changes have been studied in your country. Add files if required

>>> There has been substantial work on the effects of climate change on bats and research is ongoing:

Ancillotto, L., Santini, L., Ranc, N., Maiorano, L., & Russo, D. (2016). Extraordinary range expansion in a common bat: the potential roles of climate change and urbanisation. *The Science of Nature*, 103, 1-8.

Smeraldo, S., Bosso, L., Salinas-Ramos, V. B., Ancillotto, L., Sánchez-Cordero, V., Gazaryan, S., & Russo, D. (2021). Generalists yet different: Distributional responses to climate change may vary in opportunistic bat species sharing similar ecological traits. *Mammal Review*, 51(4), 571-584.

Salinas-Ramos, V.B., Tomassini, A., Ferrari, F., Boga, R. and Russo, D., 2023. Admittance to Wildlife Rehabilitation Centres Points to Adverse Effects of Climate Change on Insectivorous Bats. *Biology*, 12(4), p.543.

Russo, D., Jones, G., Polizzi, M., Meola, V., & Cistrone, L. (2024). Higher and bigger: How riparian bats react to climate change. *Science of the Total Environment*, 913, 169733.

Russo, D., Jones, G., Martinoli, A., Preatoni, D.G., Spada, M., Pereswiet-Soltan, A. and Cistrone, L., 2024. Climate is changing, are European bats too? A multispecies analysis of trends in body size. *Ecology and Evolution*, 14(2), p.e10872.

Besides, Prof Danilo Russo, Italian scientific focal point for EUROBATS, has been the chair and main proposer of COST ACTION CA18107 "CLIMBATS": [www.climbats.eu](http://www.climbats.eu)

## **11. Further important activities to share with other Parties and Range States**

Give details or provide links

>>> A COST Action led by the University of Naples Federico II, involving 27 countries, most of which are Eurobats Parties or Range States, ended in 2023. The proposal was centered on examining the effects of climate change on bats and the ecosystem services they offer. EUROBATS has actively collaborated on this initiative, which also includes the issuance of a shared monitoring guideline document.

The project has been highly successful in terms of scientific output and international networking. Further information is available at [www.climbats.eu](http://www.climbats.eu) .

## C. Confirmation

### Confirmation of information verification and approval for submission

#### Please confirm:

In addition a scanned copy of an official letter from the relevant state institution, approving the report for submission, can be attached.

*Please select only one option*

I declare that the information provided in the Report on the implementation of EUROBATS has been verified and the report has been approved for submission by the appropriate state institution in the country.

#### Date of submission

Fill as follows: dd.mm.yyyy

>>> 09.09.2024