European Red List of Non-marine Molluscs

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Europe is a continent rich in natural and cultural heritage, with a diverse range of habitat conditions from dry Mediterranean maquis in the south to the Arctic tundra of the far north.

Possibly more than anywhere else in the world the European landscapes have been changed by human activities so that now the continent is covered with a mosaic of natural and semi-natural habitats surrounding urbanized areas. Although bringing higher diversity, this modification has obviously also placed great pressures on our wildlife and natural areas. In consequence, biodiversity loss is an enormous challenge in the EU today, with around one in four species currently threatened with extinction and 88% of fish stocks over-exploited or significantly depleted.

In line with global commitments made in Nagoya in October 2010, where world leaders adopted a package of measures to address global biodiversity loss over the coming decade, the European Commission has adopted in May 2011 an ambitious new strategy to halt the loss of biodiversity and ecosystem services in the EU by 2020. There are six main targets, and 20 actions to help Europe reach its goal.

The six targets cover:
1. full implementation of EU nature legislation to protect biodiversity
2. better protection for ecosystems, and more use of green infrastructure
3. more sustainable agriculture and forestry
4. better management of fish stocks
5. tighter controls on invasive alien species
6. a bigger EU contribution to averting global biodiversity loss

Numerous scientific studies show that biodiversity in Europe has been declining rapidly for some time during periods of expansion and intensification of land use. The reporting process under Article 17 of the EU Habitats Directive underlines this fact as most species and habitats of community interest are still not under a favourable conservation status.

Regional European Red Lists are another important tool to scientifically assess and communicate the status of species. They usefully complement the reporting under the Habitats Directive as they usually address all species in a specific taxonomic group, not just those protected by EU legislation. They hence give important complementary and comprehensive information about the situation of biodiversity in Europe.

This first regional assessment of all Europe’s freshwater molluscs and selected terrestrial molluscs has evaluated the conservation status for more than 2,000 species present in Europe.

Snails and bivalves are found in almost all European freshwater bodies and terrestrial habitats except at high altitudes above 3,000 m. They are an important part of Europe’s natural heritage and provide crucial services for the ecosystem as they recycle nutrients and form an essential part of the food chain. Furthermore, bivalves such as mussels are responsible for cleaning large quantities of water.

This European Red List highlights that almost half (44%) of the freshwater species and one out of five (20%) of the selected terrestrial molluscs are threatened. This compares with 37% of freshwater fishes, 23% of amphibians, 19% of reptiles, 15% of mammals and dragonflies, 13% of birds, 9% of butterflies and 7% of the aquatic plants, the other groups that have been comprehensively assessed in Europe. Additional European Red Lists assessing a selection from species groups indicate that 12% of the crop wild relatives and 11% of the saproxylic beetles are also threatened.

Furthermore, there are declining populations in 11% of Europe’s freshwater molluscs and 6% of selected terrestrial species, but for 82% of freshwater and 53% of terrestrial species the population trend is still unknown and could also be declining.

The main reason for these declines include pollution, dams and water extraction (mainly for agriculture and drinking purposes) for the freshwater mollusc species and urbanisation, agriculture and recreational activities for the terrestrial molluscs.

What can we as Europeans do about this? First and foremost, we need to fully implement the existing European legislation. The EU Habitats and Birds...
Directives are the main pieces of legislation ensuring the protection of Europe’s nature. The Natura 2000 network of protected sites and the efforts to conserve and restore biodiversity in the wider countryside are helping to guarantee its future conservation. But the challenge is a wider one, as the new EU Biodiversity Strategy shows. Sustainable use of our wider environment and the maintaining of ecosystem services have come to the centre of our attention.

I hope that this European Red List for Non-marine Molluscs will add another piece of evidence for the fact that efforts aimed at halting the loss of biodiversity need a major boost in the coming years.

Pia Bucella
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Executive summary

Aim

The European Red List is a review of the conservation status of c.6,000 European species (dragonflies, butterflies, freshwater fishes, reptiles, amphibians, mammals and selected groups of beetles, molluscs, and vascular plants) conducted according to IUCN regional Red Listing guidelines. It identifies those species that are threatened with extinction at the regional level — in order that appropriate conservation action can be taken to improve their status. This Red List publication summarises results for a selection of European non-marine molluscs.

Scope

About 2,000 mollusc species (all freshwater mollusc species and terrestrial mollusc species from selected families) native to Europe are included. The geographical scope is continent-wide, extending from Iceland in the west to the Urals in the east, and from Franz Josef Land in the north to the Canary Islands in the south. The Caucasus region is not included. Red List assessments were made at two regional levels: for geographical Europe, and for the 27 current Member States of the European Union.

Status assessment

The conservation status of all species was assessed using the IUCN Red List Criteria (IUCN 2001), which is the world's most widely accepted system for measuring extinction risk. All assessments followed the Guidelines for Application of IUCN Red List Criteria at Regional Levels (IUCN 2003). These assessments were compiled from information from a network of over 75 compilers from almost every European country and reviewed during various evaluation workshops, in Budapest (Hungary), London (UK) and Bern (Switzerland) and through discussions and correspondence with relevant experts. Assessments are available on the European Red List website and data portal: http://ec.europa.eu/environment/nature/conservation/species/redlist and http://www.iucnredlist.org/europe.

Results

Overall, about 44% (373 species) of freshwater molluscs and 20% (246 species) of the selected terrestrial molluscs are threatened in Europe, while at the EU 27 level, a slightly higher percentage is observed with 50% (273 species) of freshwater molluscs and 21% (235 species) of the selected terrestrial molluscs being threatened. A further 9% of freshwater and 15% of the selected terrestrial molluscs are considered Near Threatened at the European level. However, these figures are minimum estimates, as almost a quarter of all European freshwater molluscs and 10% of the selected European terrestrial molluscs are Data Deficient and many of them might prove to be threatened once enough data becomes available to evaluate their extinction risk.

By comparison, 37% of freshwater fishes, 23% of amphibians, 19% of reptiles, 15% of mammals and dragonflies, 13% of birds, 9% of butterflies and 7% of aquatic plants are threatened, the other groups that have been comprehensively assessed in Europe (Freyhof and Brooks 2011, Temple and Cox 2009, Cox and Temple 2009, Temple and Terry 2007, Kalkman et al. 2010, BirdLife International 2004a, van Swaay et al. 2010, Bilz et al. 2011). Additional European Red Lists assessing a selection from species groups have shown that 12% of the crop wild relatives and 11% of the saproxylic beetles are also threatened (Bilz et al. 2011, Nieto and Alexander 2010).

There is a lack of good population trend data and a vast majority of the assessed non-marine mollusc species have unknown population trends (83% for the freshwater molluscs and more than half (53%) for the terrestrial molluscs), whilst in both cases, less than one percent of species are seen to be increasing.

The main centres of diversity, endemism and threats are found in the Mediterranean, from the Iberian Peninsula to the Balkans, around the Alpine Arc and in various island groups, highlighting the richness, but also the vulnerability of these areas. The ancient lakes in the
Balkans, underground karstic systems, the Macaronesian (Azores, Madeira, Canary Islands) and Mediterranean (Greek, Maltese and Balearic islands, Sicily, Sardinia, Corsica) islands deserve special attention in that regard.

The main threat to European molluscs is the loss and degradation of suitable habitat. For the freshwater species, this is due to water pollution (nitrates and other chemicals from agricultural sources and poor domestic sewage management) and over-abstraction of water from springs and groundwater sources, while for terrestrial molluscs, the major problems are related to encroaching urbanisation, agricultural improvements, tourism and recreation activities, wildfires and infrastructure construction.


Conclusions

- With nearly half of all European freshwater molluscs facing extinction (44%), this is by far the most threatened group assessed to date in Europe, highlighting the worrying situation of European freshwater ecosystems.
- Terrestrial molluscs are also in need of protection, as one in five (20%) of the assessed species are considered to be threatened in Europe.
- In Europe, 8 species are already Extinct, with a further 35 species considered Critically Endangered (Possibly Extinct) indicating that actions are needed before 2020, in order to reach the new EU target to halt biodiversity loss.
- More than 90% of the European molluscs are endemic, which means that they don't occur anywhere else in the world and represent Europe's natural heritage.
- To revert the dramatic decline of molluscs in Europe, urgent conservation actions are needed:
  - National and European legislation should be fully implemented and revised to include the threatened species identified during this project.
  - Key sites should be protected and the management of these habitats and of existing protected areas should take into consideration the specific requirement of molluscs.
  - Water management should be improved, especially regarding the over-exploitation of springs and groundwater and the pollution resulting from agriculture and urbanisation.
  - Environmental Impact Assessments (EIA) should be conducted for any major project, such as dams, drainage, waste disposal sites and new industrial estates, to assess the impact and mitigation measures needed for native molluscs.
  - Species Action Plans should be drawn for the most threatened species; however a multi-taxon approach through the use of habitat action plans may be more appropriate for some species. For the most threatened species, captive breeding programmes might need to be set in place.
  - Invasive species should be controlled to reduce their impact on the native fauna.
  - The importance and role of molluscs, and of invertebrates in general, should be promoted through a campaign to raise awareness.
  - Monitoring of the population size, distribution and trend (possibly through the monitoring of the habitat as a proxy) should be undertaken for the threatened and Data Deficient species.
  - Further taxonomic research should be undertaken to clarify the taxonomic status of the European molluscan fauna.
- It should be noted that the current results indicate the main trends from the last 30 years, however in the last two centuries, the distribution and population of many widespread species have been declining since the 1880's, and the greatest losses were seen between 1920 and 1960 due to habitat change and degradation.
- This project contributes to improving the coverage of invertebrates on the global IUCN Red List, thanks to the comprehensive assessment of European freshwater molluscs, and it doubles the number of assessed terrestrial molluscs, through the addition of the selected families.
1. Background

1.1 The European context

Europe is one of the seven traditional continents of the Earth, although physically and geologically it is the westernmost peninsula of Eurasia. Europe is bound to the north by the Arctic Ocean, to the west by the Atlantic Ocean, to the south by the Mediterranean Sea, and to the southeast by the Black Sea and the Caucasus Mountains. In the east, Europe is separated from Asia by the Ural Mountains and the Caspian Sea (see Figure 3 below). It is the world’s second-smallest continent in terms of area, covering approximately 10,400,000 square kilometres (4,010,000 square miles) or 2% of the Earth’s surface. In terms of human population, Europe is the third-largest continent (after Asia and Africa) with a population of some 731 million – about 11% of the world’s population. Europe is the most urbanised and, together with Asia, the most densely populated continent in the world.

The European Union, comprising 27 Member States, is Europe’s largest political and economic entity. It is the world’s largest economy with an estimated GDP in 2008 of 18.9 trillion US dollars (Central Intelligence Agency 2009). Per-capita GDP in many EU states is among the highest in the world, and rates of resource consumption and waste production are correspondingly high – the EU 27’s “ecological footprint” has been estimated to exceed the region’s biological capacity (the total area of cropland, pasture, forest, and fishing grounds available to produce food, fibre and timber, and absorb waste) by 2.6 times (WWF 2007).

Europe has arguably the most highly fragmented landscape of all continents, and only a tiny fraction of its land surface can be considered as wilderness. For centuries humans have occupied most of Europe’s land to produce food, timber and fuel and to provide living space, and currently in western Europe more than 80% of land is under some form of direct management (European Environment Agency 2007). Consequently, European species are to a large extent dependent upon semi-natural habitats created and maintained by human activity, particularly traditional, non-intensive forms of land management. These habitats are under pressure from agricultural intensification, urban sprawl, infrastructure development, land abandonment, acidification, eutrophication and desertification.

Molluscs are present in the seas, rivers and on land. They show a great variety of size, shape, behavior and habitat. They include (from top left to bottom right) snails, slugs, clams, mussels, chitons, squids, cuttlefishes and octopuses. Photos (from top left to bottom right) © António Manuel de Fria Martins, Eike Neubert, Naotake Murayama, Rebecca Wood, Malcolm Carlaw, Dan Hershman, Marc Lehmann, Prilfish.
Many species are directly affected by overexploitation, persecution and impacts of alien invasive species, as well as climate change being set to become an increasingly serious threat in the future. Europe is a very diverse continent and the relative importance of different threats varies widely across its biogeographic regions and countries. Even though considerable efforts have been made to protect and conserve European habitats and species (e.g. see Sections 5.1, 5.2, 5.3), biodiversity decline and the associated loss of vital ecosystem services (such as water purification, crop pollination, and carbon sequestration) continues to be a major concern all over Europe.

1.2 European molluscs: diversity and endemism

The Phylum Mollusca (snails, slugs, clams, mussels, chitons, squids, cuttlefishes and octopuses) contains an estimated 81,000 described species (Bouchet 2007), comprising about 55,000 marine molluscs, 6,000 freshwater and 25,000 terrestrial species worldwide. However the numbers are increasing annually, as more research is carried out, especially in regions of the world that are less well known. Molluscs can be found in almost all types of habitats, from the bottom of the oceans to mountain tops and tundra regions. They are very diverse, not only in size and shape, but also in their life-cycle, life-span and habitat. They are an important food source for birds, fish, mammals and other invertebrates, as well as for humans, and play a key role in the recycling of nutrients, soil-generation and water filtration. They are also good indicators of environmental quality, especially for rivers, lakes, marshes, ancient grasslands and ancient woodlands. Terrestrial molluscs are often known as garden pests. However the pest species represent only a minority of the species existing in Europe.

The EU Fauna Europaea project (2004) provided the first compilation of a regional checklist of non-marine molluscs for Europe (excluding Asiatic Turkey) and is available online (www.faunaeur.org). Studies led between 2005 and 2011 have added another c. 500 species to this list, the majority resulting from work on the molecular systematics of selected groups and through fieldwork in regions which had been rarely surveyed previously, with a total of almost 3,400 species for the entire region (Fauna Europaea, Bank et al. 2011). This 17% increase in the number of known species over a relatively short period indicates that many additional species might be recognized once they are better studied.

Within Europe, there are major geographic differences in the level of endemism and species diversity of non-marine
molluscs. There is an increase in the species diversity from northern to southern Europe, as well as an increase in the number of subspecies currently recognized (see Figure 1) in southern and eastern Europe (Yugoslavia here includes Serbia, Kosovo and the Voivodina, Montenegro is listed as a separate country, and FYROM means the Former Yugoslav Republic of Macedonia). The patterns of radiations are thought to reflect the contribution of particular families to both species and subspecies diversity, which differs deeply between western and eastern Europe. In Eastern Europe, Clausiliidae, Oxychilidae and Enidae contribute the most to the diversity, but these families are not well represented in the Iberian Peninsula, which is dominated by the freshwater snails of the Superfamilia Rissooidea, family Hydrobiidae, the terrestrial family Chondrinidae, as well as radiations within the families Hygromiidae and Trisexodontidae. These patterns may reflect various species radiation waves that occurred within Europe during late Miocene and early Pleistocene following the depletion of the former subtropical European molluscan fauna.

The Council of Europe report on Invertebrates in need of conservation (Wells and Chatfield 1992) provided the last major overview on the conservation status of non-marine mollusc species in Europe. This document listed many of the species that were considered at the time as potentially threatened. The 1996 Red List released at the World Conservation Congress in Montreal included assessments of 1428 species of molluscs, of which 604 were threatened and 237 considered to be extinct (Seddon 1998). Only 145 assessments were for European species, which Bouchet et al. (1999) pointed out did not reflect the levels of threat to either narrow range endemics or to the broad-ranging, declining species in Europe. When this project started, a total of 2,213 molluscs species were listed on the IUCN Red List, of which only 335 were European including 174 considered threatened (IUCN 2007).

1.3 Species threat status

The conservation status of plants and animals is one of the most widely used indicators for assessing the condition of ecosystems and their biodiversity. It also provides an important tool in establishing priorities for species conservation. At the global scale, the best source of information on the conservation status of plants and animals is the IUCN Red List of Threatened Species (see www.iucnredlist.org; IUCN 2009). The Red List is designed to determine the relative risk of extinction, with the main purpose of cataloguing and highlighting those taxa that are facing a higher risk of extinction. It provides taxonomic, conservation status, and distribution information on taxa that have been evaluated using the IUCN Red List Categories and Criteria: Version 3.1 (IUCN 2001). There are nine Categories, ranging from Least Concern, for species that are not threatened, through to

Figure 2. IUCN Red List Categories at regional scale
the Extinct category, for species that have disappeared from the planet. The IUCN Red List Categories are based on a set of quantitative criteria linked to changes in either population trends, population size and structure, and/or geographic range. Those species classified as Vulnerable, Endangered and Critically Endangered are considered as ‘threatened’. When conducting regional or national assessments, two additional categories are used (Regionally Extinct and Not Applicable) for non-native species (IUCN 2003) (Figure 2).

1.4 Objectives of the assessment

The European regional assessment has four main objectives:

- To contribute to continental conservation planning through the provision of a baseline dataset describing the conservation status of European non-marine molluscs.
- To identify those geographic areas and habitats that need conservation measures to prevent extinctions and ensure that European non-marine molluscs reach and maintain a Favourable Conservation Status.
- To identify the major threats and propose mitigating measures and conservation actions to address them.
- To strengthen the network of experts focused on conservation of molluscs in Europe, so that the assessments can be kept up-to-date, and expertise be targeted to address the highest conservation priorities.

The assessment provides three main outputs:

- This summary report on the status and distribution of European molluscs; their main threats and recommendations for conservation measures, as well as a poster on their status.
- A freely available database holding the baseline data for monitoring the status and distribution of European molluscs;
- A website and data portal (http://ec.europa.eu/environment/nature/conservation/species/redlist and http://www.iucnredlist.org/europe) showcasing this data in the form of species factsheets for all European molluscs, along with background and other interpretative material;

The data presented in this report provides a snapshot based on the knowledge available at the time of writing. The database will continue to be updated and made freely and widely available. IUCN will ensure a wide dissemination of these data to relevant decision makers, NGOs and scientists to strengthen and support the implementation of conservation actions on the ground.

Cornu asperum, commonly known as the Garden Snail or “Petit Gris”, is widespread in the Mediterranean and western parts of Europe, where it is locally abundant. It is found in Mediterranean shrubland, base-rich grassland, coastal sand dunes, and is also associated with human disturbed environments such as gardens or stonewalls. It is consumed for food in some parts of Europe. It has been introduced across the world, including other parts of Europe, North and South America, South Africa and Australasia, where it is often regarded as a pest species. It has a stable population trend, and may even expand its range to suitable habitats made available with climate change. It is currently considered as Least Concern. © Matthew Hutchinson

2 For a description of each of the global IUCN Red List Categories go to: http://www.iucnredlist.org/technical-documents/categories-and-criteria/2001-categories-criteria#categories
2. Assessment methodology

2.1 Global and regional assessments

The extinction risk of a species can be assessed at global, regional or national level. One species can have a different category in the Global Red List and in a Regional Red List. For example, a species that is common worldwide and classed as Least Concern (LC) in the Global Red List could face a high level of threat and fit the Endangered category (EN) in a particular region (see Figure 2). In order to avoid an over- or underestimation of the regional extinction risk of a species, the Guidelines for the application of IUCN Red List Criteria at Regional Level should be applied (IUCN 2003). Logically, an endemic species should have the same category at regional and global levels, as it is not present in any other part of the world.

2.2 Geographic scope

The geographical scope of this report is continent-wide, extending from Iceland in the west to the Urals in the east (including European parts of the Russian Federation), and from Franz Josef Land in the north to the Mediterranean in the south (see Figure 3). The Canary Islands, Madeira and the Azores were also included. In the southeast, where definitions of Europe are most contentious, the Caucasus region was not included.

Red List assessments were made at two regional levels:
1) for geographical Europe (limits described above); and
2) for the area of the 27 Member States of the European Union.

2.3 Taxonomic scope

For this project, more than 2,000 molluscs species (over 1,200 terrestrial molluscs from selected families and 854 freshwater species) have been assessed. According to the latest census available, geographical Europe (excluding Russia) is inhabited by more than 3,373 species, which are currently known to split into another 1352 subspecies (Fauna Europaea, Bank 2011, unpublished, status June 2011). This means that 2/3 of the molluscan fauna of

Figure 3. Regional assessments were made for two areas – geographical Europe and the EU 27.
Europe is covered by the project, which can thus claim to be representative in a statistical sense. The addition of species from European Russia (defined as up to the Ural Mts but not including the Caucasus) is likely to only slightly change this figure.

The nomenclature and checklist for the non-marine molluscs follows Fauna Europaea (Bank et al. 2006), with subsequent additions of new species from the period 2005-2011, as well as various nomenclatural changes, which have been through a peer-review process and are largely based on published papers. It should be noted that subspecies were not individually assessed as part of this project, and that these represent a large number of endemic subspecies restricted to separate islands, valleys or mountain ranges, which might prove to be valid species once more research is carried out.

Subspecies currently represent at least 30% of the taxa found in Europe. Molecular analyses of several terrestrial and freshwater mollusc species of Europe have shown that many species are “cryptic”, i.e. that they are biologically valid and distinct species, but their morphology is very similar, if not identical, and they have been overlooked. At present the molecular results are insufficient to understand the potential changes in species limits in all groups, but this is one factor that has led and will probably lead in the future to the increasing number of species that are recognized in Europe.

A small number of species (approximately 1%) are introductions from outside Europe (North American/African species); these have not been assessed as part of the IUCN Red List.

2.4 Preliminary assessments

More than 75 experts gathered species specific information, obtained from primary literature, museum collection and personal knowledge, and provided a preliminary assessment for all the native European molluscs species included in this project.

The following data were entered into the IUCN database, the Species Information Service (SIS):

- Species’ taxonomic classification
- Geographic range (including a distribution map)
- Red List Category and Criteria
- Population information
- Habitat preferences
- Major threats
- Conservation measures
- Other general information
- Key literature references

A digital distribution map was also created for each species, using ArcGIS software.

2.5 Review workshop and evaluation of assessments

The preliminary assessments were evaluated through review workshops and correspondence with relevant experts. New information was added to the species summaries and maps, and corrections to existing data were made.

Two workshops were organised to cover the freshwater mollusc species: the Balkans and south-east Europe species were reviewed from 23 to 27 November 2009, in Budapest (Hungary), whilst species occurring in northern Europe and the western Mediterranean regions were considered from 1 to 5 February 2010 in London (UK). The remaining freshwater species were dealt with by correspondence and meetings with the relevant experts. Another workshop was dedicated to threatened terrestrial molluscs, from 28 September to 2 October 2010 in Bern (Switzerland). The list of non-threatened terrestrial species was agreed during the latter workshop and these species were only evaluated through correspondence.

Following the review workshops, the data were edited, and outstanding questions were resolved through
communications with the workshop participants. The post-workshop draft categories and criteria were also made available to allow the participating scientists to make any final corrections.

Facilitating staff from the IUCN Red List Unit and the IUCN Regional Office for Europe reviewed the assessments to ensure they complied with the guidelines for application of the IUCN Red List Categories and Criteria and included the most up-to-date comprehensive information.

The resulting finalized IUCN Red List assessments are a product of scientific consensus concerning species status and are backed by relevant literature and data sources.
Spengler’s Freshwater Mussel (*Margaritifera auricularia*) was originally widespread throughout Europe, but nowadays it is restricted to France and Spain. It is currently listed as Critically Endangered. In the 1980’s it was considered to be nearly extinct. It is difficult to survey, as the species occurs in beds of the slow flowing channels of large river systems. Survey work in France and Spain, has increased the known sites in the last 10 years, but as a long-lived species that requires unpolluted waters as well as a host fish during part of its life-cycle, it is still highly threatened. The major threats are construction of dams on the rivers, dredging of the river channels for navigation, water pollution and the decline of host fish populations, as well as the loss of migrating fish passing over the mussel beds. The species is one of two, for which a European-level Action Plan was written, and there are active conservation programmes ongoing in Spain and France, with ex-situ conservation breeding, as well as experiments to determine suitable fish hosts and levels of tolerance for pollution.

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3. Freshwater Molluscs – Species selection and results

3.1 Introduction

Freshwater molluscs are found in a wide range of freshwater habitats and have varied life-history strategies, with life-spans that vary from three months (pea-clams) to over 120 years (pearl mussels). In general the freshwater molluscs of Europe are much more diverse than some continental faunas such as the one of Africa, with an estimated 856 European species compared to an estimated 560 African species (Seddon et al. 2011).

Freshwater molluscs fall into two main groups, the Bivalves and the Gastropods, the latter group having proportionally higher species diversity in Europe than in Africa and North America.

Freshwater bivalves

The freshwater bivalves represent about 6% (48 species) of the total freshwater molluscs in Europe. The term bivalve is derived from the Latin bis, meaning ‘two’, and valvae, meaning leaves of a door. They are divided into two globally distributed orders: Unionoida (otherwise known as freshwater mussels) and Veneroida (clams and pea-clams). At present the diversity of European freshwater mussels is relatively low compared to the North American and the Africa fauna (Bogan 2010). It lies largely in the genera Margaritifera, Unio, Anodonta, and Potomida that are Palaearctic, extending into the Maghreb region of Northern Africa and east into Russia, in some cases to Siberia. The genus Anodonta is a widespread Eurasian and North American genus that, in the western Palaearctic, reaches its southern limit in north-west Africa. Similarly, the Veneroida (32 species) occupy a wide range of habitats, from brackish estuarine waters to pools, rivers and lakes and many of the pea-clams (Family Sphaeriidae) are more cosmopolitan taxa.

Certain taxa are both morphologically variable and widespread in the western Palaearctic, from the British Isles and Iberia east into Russia and Central Asia (Araujo et al. 2009) and some of these taxa have been listed as subspecies in the current list from Fauna Europaea. However, the traditional concepts of Palaearctic genera and species are holdovers from early in the last century and they have only begun to be reevaluated using modern analytical methods and species concepts (Araujo et al. 2009). More recent work (Van Damme et al. 2010, R. Araujo pers comm. 2010) suggests that some of the species originally listed as present in both the Iberian Peninsula and North Africa, are now viewed as distinct range-restricted species found in only North Africa or the Iberian Peninsula. Amongst the 39 bivalve subspecies currently listed as present in Europe, more may be upgraded to the rank of species once more genetic analyses are done. Hence the number of species is likely to increase as this taxonomic research continues.

All of the freshwater bivalves possess a common suite of adaptations to life in fresh water. These include larval brooding, direct development, and, in the case of freshwater mussels, obligate larval parasitism upon freshwater fishes (Araujo et al. 2009). This has a major impact on the ability of the species to reproduce, and hence is a factor in the level of endangerment in this group.

Freshwater Gastropods

The freshwater gastropods represent about 94% (808 species) of the total number of freshwater mollusc species in Europe, dividing into two groups, the Prosobranchs (Orders Allogastropoda, Architaenoglossa, Cycloneritimorpha, Littorinomorpha, with the largest family Hydrobiidae) and the Pulmonates (Order Hygrophila, containing the Lymnaeidae, Acroloxidae, Planorbidae), which contain a higher proportion of the widespread, more cosmopolitan species (see Table 1).

3.2 Species selection

All freshwater mollusc species native to Europe or naturalised before AD 1500 were included in the
assessment, except two that only have a marginal occurrence in Europe. This includes both freshwater bivalves (including those that occur in brackish and freshwaters) and freshwater gastropods (some species that occur in brackish waters were included, where their range was predominantly freshwater). In total, 854 species were considered.

The Family Hydrobiidae has undergone a major radiation (i.e. the diversification of a single ancestral type into several forms that are each adaptively specialized to a specific environmental niche) and has high species diversity in Europe. However there is considerable revisionary work ongoing looking at the status of species and the species limits for this challenging group. For example, in the checklists for Germany, some experts have listed as few as 3 species for the genus *Bythiospeum* (*B. acicula, B. quenstedti, B. sandbergi*), whereas now, Fauna Europaea (Bank et al. 2006) considers there are over 25 valid species in this country. As a consequence, during the initial phase of data gathering, there were considerable discrepancies, with some countries listing all of their taxa as Data Deficient due to taxonomic issues and others classifying the majority of their species as threatened, based on the current data for species that were known to be range restricted.

During an evaluation workshop in London, experts discussed this issue and estimated that the levels of taxonomic uncertainty were similar in many regions.

---

**Table 1. Diversity and endemism in freshwater molluscs families in Europe**.

<table>
<thead>
<tr>
<th>Class</th>
<th>Order</th>
<th>Family</th>
<th>Europe</th>
<th>EU 27</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of species</td>
<td>Number of endemic species</td>
<td>% of endemic species</td>
<td>Number of species</td>
</tr>
<tr>
<td>Bivalvia</td>
<td>Unionoida</td>
<td>Margaritiferidae</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Unionida</td>
<td>14</td>
<td>4</td>
<td>29%</td>
</tr>
<tr>
<td>Veneroida</td>
<td>Corbiculidae</td>
<td>0</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td>Dreissenidae</td>
<td>4</td>
<td>3</td>
<td>75%</td>
</tr>
<tr>
<td></td>
<td>Sphaeriidae</td>
<td>28</td>
<td>3</td>
<td>11%</td>
</tr>
<tr>
<td>Allogastropoda</td>
<td>Valvatidae</td>
<td>12</td>
<td>6</td>
<td>50%</td>
</tr>
<tr>
<td>Architaenioglossa</td>
<td>Viviparidae</td>
<td>5</td>
<td>3</td>
<td>60%</td>
</tr>
<tr>
<td>Cycloneritimorpha</td>
<td>Neritidae</td>
<td>12</td>
<td>7</td>
<td>58%</td>
</tr>
<tr>
<td>Eupulmonata</td>
<td>Ellobiidae</td>
<td>2</td>
<td>2</td>
<td>100%</td>
</tr>
<tr>
<td>Hygrophiia</td>
<td>Acroloxidae</td>
<td>4</td>
<td>3</td>
<td>75%</td>
</tr>
<tr>
<td></td>
<td>Lymnaeidae</td>
<td>20</td>
<td>9</td>
<td>45%</td>
</tr>
<tr>
<td></td>
<td>Physidae</td>
<td>3</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td>Planorbiidae</td>
<td>42</td>
<td>22</td>
<td>52%</td>
</tr>
<tr>
<td>Littorinimorpha</td>
<td>Amnicolidae</td>
<td>4</td>
<td>4</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>Assimineidae</td>
<td>3</td>
<td>3</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td>Bithyniidae</td>
<td>35</td>
<td>33</td>
<td>94%</td>
</tr>
<tr>
<td></td>
<td>Cochliopidae</td>
<td>14</td>
<td>13</td>
<td>93%</td>
</tr>
<tr>
<td></td>
<td>Hydrobiidae</td>
<td>586</td>
<td>570</td>
<td>97%</td>
</tr>
<tr>
<td>Sorbeoconcha</td>
<td>Melanopsidae</td>
<td>11</td>
<td>8</td>
<td>73%</td>
</tr>
<tr>
<td></td>
<td>Thiaridae</td>
<td>1</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>856</strong></td>
<td><strong>748</strong></td>
<td><strong>87%</strong></td>
<td><strong>670</strong></td>
</tr>
</tbody>
</table>

* This table includes species that are native or naturalized since before AD 1500; species introduced after 1500 are not included. Species of marginal occurrence in Europe and/or the EU are included. For the EU 27 assessment, the Not Evaluated species (species which do not occur in the EU) are excluded.
except where there had been molecular and anatomical work to support the species limits. **Hence a precautionary approach to identification of species limits was adopted, in order to allow conservation assessments to be made, based on the current evidence for species limits, so that the sites containing species of conservation interest can be identified and actions can be taken to establish the status of the species and implement measures to conserve the habitats.** Therefore, between February 2010 and December 2010, over 450 freshwater species were reviewed again, to improve the consistency of their treatment.

Research into the Family Bithyniidae has also revealed an overlooked area of species diversity in the Balkan region, with several cryptic species (i.e. species that are biologically valid and distinct species, but whose morphology is very similar, if not identical) revealed (e.g. Gloer and Pesic 2007, Gloer, Albrecht and Wilke 2009, Gloer and Maasen 2009). Molecular research into the Lymnaeidae and Planorbiidae is also showing cryptic diversity, however, at present the results are insufficient to understand the potential changes in species limits, and as such further research is required on these groups.

Eleven species that were introduced in Europe after AD 1500 and two species that are only of marginal occurrence in Europe were classed as Not Applicable (Table 2).

### 3.3 Threat status of freshwater molluscs

The status of freshwater molluscs was assessed at two regional levels: geographical Europe and the EU 27. At the European level, at least 43.7% of the species (373 species) are considered as threatened, with at least 12.8% of them being Critically Endangered, 10.5% Endangered and 20.4% Vulnerable (Table 3 and Figure 4 and 5). In addition 23 of the 109 Critically Endangered species are considered Possibly Extinct and five species are listed as Extinct. A further 8.8% of the species (75 species) are classified as Near Threatened. By contrast, only 22% of the freshwater fauna was assessed as Least Concern, revealing a proportionately high level of threat to these species.

Within the EU 27, the pattern is very similar: at least 40.9% of the freshwater molluscs (273 species) are threatened with extinction, of which at least 11.8% are Critically Endangered, 8.1% Endangered and 21% Vulnerable. In addition, 8.4% of species are considered as Near Threatened.

<table>
<thead>
<tr>
<th>Family</th>
<th>Genus</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORBICULIDAE</td>
<td>Corbicula</td>
<td>fluminalis</td>
</tr>
<tr>
<td>CORBICULIDAE</td>
<td>Corbicula</td>
<td>fluminea</td>
</tr>
<tr>
<td>DREISSENIDAE</td>
<td>Dreissena</td>
<td>polymorpha</td>
</tr>
<tr>
<td>PLANORBIDAE</td>
<td>Gyraulus</td>
<td>piscinarum</td>
</tr>
<tr>
<td>DREISSENIDAE</td>
<td>Mytilopsis</td>
<td>leucophaeata</td>
</tr>
<tr>
<td>HYDROBIIDAE</td>
<td>Potamopyrgus</td>
<td>antipodarum</td>
</tr>
<tr>
<td>LYMNAEIDAE</td>
<td>Pseudosuccinea</td>
<td>colusabella</td>
</tr>
<tr>
<td>PHYSIDAE</td>
<td>Physella</td>
<td>gyrina</td>
</tr>
<tr>
<td>PLANORBIDAE</td>
<td>Helisoma</td>
<td>trivolvis</td>
</tr>
<tr>
<td>PLANORBIDAE</td>
<td>Planorbiella</td>
<td>duryi</td>
</tr>
<tr>
<td>SPHAERIIDAE</td>
<td>Musculium</td>
<td>transversum</td>
</tr>
<tr>
<td>UNIONIDAE</td>
<td>Sinanodonta</td>
<td>woodiana</td>
</tr>
<tr>
<td>NERITIDAE</td>
<td>Theodoxus</td>
<td>anatolicus</td>
</tr>
</tbody>
</table>

The majority of bivalves, such as this Thick Shelled River Mussel (*Unio crassus*) (Vulnerable at the European level) are filter feeders, using their gills to capture particulate food from the water and purifying large amounts of water. Most of these large river mussels have suffered declines in the last 100 years, with major impacts from water pollution, from industrial sources, poor sewage management and nowadays nitrates from agricultural run-off. These species provide the water cleansing services for our major rivers, and hence are key for the quality of our river systems. 

Photo © Vincent Prié / Caracol.
However, almost a quarter of the freshwater molluscs (24.7% - 211 species) are assessed as Data Deficient, i.e. there was not enough scientific information to estimate their risk of extinction. This does not mean that they are not threatened, on the contrary, some have not been observed for several decades, which might indicate that they are rare or even already extinct. The main reasons for the Data Deficiency were taxonomic issues, lack of recent observations and the difficulty with sampling some of the species living in groundwater.

Three species are considered Near Threatened at the European level, but Vulnerable at the EU 27 level (Dreissena presbensis, Istriana mirnae and Pisidium hinzi), as their EU 27 population is smaller and facing comparatively greater threats.

Thirteen species were considered as Not Applicable, two due to their marginal occurrence in Europe and 11 because they were introduced to Europe after 1500 AD.

Amongst all taxonomic groups assessed so far at the European level, freshwater molluscs are the most threatened group, as 37% of freshwater fishes, 23% of amphibians, 19% of reptiles, 15% of mammals and dragonflies, 13% of birds, 9% of butterflies and 7% of the aquatic plants, the other groups that have been comprehensively assessed in Europe, are threatened with extinction (Freyhof and Brooks 2011, Temple and Cox 2009, Cox and Temple 2009, Temple and Terry 2007, Kalkman et al. 2010, BirdLife International 2004a, van Swaay et al. 2010, Bilz et al. 2011). Additional European Red Lists assessing a selection from species groups

Table 3. Summary of numbers of European freshwater molluscs within each category of threat

<table>
<thead>
<tr>
<th>IUCN Red List categories</th>
<th>No. species Europe (no. endemic species)</th>
<th>No. species EU 27 (no. endemic species)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extinct (EX)</td>
<td>5 (5)</td>
<td>4 (3)</td>
</tr>
<tr>
<td>Critically Endangered (CR)</td>
<td>109 (107)</td>
<td>79 (72)</td>
</tr>
<tr>
<td>Endangered (EN)</td>
<td>90 (90)</td>
<td>54 (48)</td>
</tr>
<tr>
<td>Vulnerable (VU)</td>
<td>174 (173)</td>
<td>140 (127)</td>
</tr>
<tr>
<td>Near Threatened (NT)</td>
<td>75 (66)</td>
<td>56 (46)</td>
</tr>
<tr>
<td>Least Concern (LC)</td>
<td>190 (109)</td>
<td>172 (65)</td>
</tr>
<tr>
<td>Data Deficient (DD)</td>
<td>211 (198)</td>
<td>162 (132)</td>
</tr>
<tr>
<td>Total number of species assessed</td>
<td>854 (748)</td>
<td>667 (493)</td>
</tr>
</tbody>
</table>

* This table does not include the Not Applicable species in Europe and/or the EU (species introduced after AD 1500 or species of marginal occurrence). For the EU 27 assessment the Not Evaluated species (species which do not occur in the EU) are also excluded.

Figure 4. Red List status of freshwater molluscs in Europe

Figure 5. Red List status of freshwater molluscs in the EU 27
indicate that 12% of the crop wild relatives and 11% of the saproxylic beetles are also threatened (Nieto and Alexander 2010, Bilz et al. 2011).

All, but three, of the threatened and Extinct species are endemic to Europe (over 99%), highlighting the responsibility that European countries have to protect the entire global populations of these species.

It should be noted that the percentages of threatened freshwater molluscs mentioned earlier represent minimum estimates. If we consider only the species for which sufficient data are available to assess the threat status (i.e. excluding Data Deficient and Extinct species), then 58.5% of European freshwater molluscs and 54.5% of EU 27 species are threatened with extinction.

### 3.4 Status by taxonomic groups

The European freshwater molluscs belong to a number of different families (see Section 3.1), among which considerable differences exist both in species numbers as well as in threat status (Table 4). Certain families are of particular concern: the Margaritiferidae, Acroloxidae, Hydrobiidae, Dreissenidae and Amnicolidae are the families with the highest percentage of threats, while the Moitessieriiid, Bithyniidae and Hydrobiidae have numerous Data Deficient species and require further studies.

The situation is slightly different for the Bivalves and the Gastropods: the Bivalves are slightly less threatened, with 21% of the species facing extinction. This is mainly due to the fact that the Family Sphaeritidae contains many

<table>
<thead>
<tr>
<th>Family</th>
<th>Total*</th>
<th>EX</th>
<th>CR</th>
<th>EN</th>
<th>VU</th>
<th>NT</th>
<th>LC</th>
<th>DD</th>
<th>% Threatened</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bivalvia</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dreissenidae</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>50.0%</td>
</tr>
<tr>
<td>Margaritifera</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>100.0%</td>
</tr>
<tr>
<td>Sphaeritidae</td>
<td>28</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>23</td>
<td>1</td>
<td>7.1%</td>
</tr>
<tr>
<td>Unionoidae</td>
<td>14</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>3</td>
<td>5</td>
<td>3</td>
<td>2</td>
<td>28.6%</td>
</tr>
<tr>
<td><strong>Gastropoda</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acroloxidae</td>
<td>4</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>75.0%</td>
</tr>
<tr>
<td>Amnicolidae</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>50.0%</td>
</tr>
<tr>
<td>Assimeinidae</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Bithyniidae</td>
<td>35</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>8</td>
<td>14</td>
<td>40.0%</td>
</tr>
<tr>
<td>Cochliopidae</td>
<td>14</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>8</td>
<td>28.6%</td>
</tr>
<tr>
<td>Corbiculidae</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Ellobiidae</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Hydrobiidae</td>
<td>586</td>
<td>4</td>
<td>91</td>
<td>65</td>
<td>139</td>
<td>52</td>
<td>90</td>
<td>145</td>
<td>50.3%</td>
</tr>
<tr>
<td>Lymnaeidae</td>
<td>20</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>13</td>
<td>3</td>
<td>10.0%</td>
</tr>
<tr>
<td>Melanopsidae</td>
<td>11</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>27.3%</td>
</tr>
<tr>
<td>Moitessieridae</td>
<td>54</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>14</td>
<td>4</td>
<td>7</td>
<td>25</td>
<td>33.3%</td>
</tr>
<tr>
<td>Neritidae</td>
<td>11</td>
<td>0</td>
<td>2</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>1</td>
<td>41.7%</td>
</tr>
<tr>
<td>Physidae</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Planorbidae</td>
<td>41</td>
<td>0</td>
<td>2</td>
<td>8</td>
<td>3</td>
<td>2</td>
<td>19</td>
<td>7</td>
<td>31.7%</td>
</tr>
<tr>
<td>Thiariidae</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Valvataridae</td>
<td>12</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>5</td>
<td>0</td>
<td>33.3%</td>
</tr>
<tr>
<td>Viviparidae</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>1</td>
<td>0.0%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>854</td>
<td>5</td>
<td>109</td>
<td>90</td>
<td>174</td>
<td>75</td>
<td>190</td>
<td>11</td>
<td>43.6%</td>
</tr>
</tbody>
</table>

* Does not include species classed as Not Applicable (NA).
cosmopolitan, widespread species, with few threats. However, the large freshwater mussels (Unionidae and Margaritiferidae) have been in decline over most of their global range and there are many threatened or declining species of special conservation concern. On the other hand, 45% of the Gastropods are at risk of extinction (see Figures 6 and 7).

3.5 Spatial distribution of species

3.5.1 Species richness of freshwater molluscs

Information on the species richness of freshwater molluscs within families has already been given in Section 3.1 and Table 1. The geographic distribution of species richness in Europe is presented in Figure 8.

Figure 8 highlights areas of particularly high concentrations of freshwater mollusc species. Within Europe, the highest species richness is found within the Mediterranean area, from the Iberian Peninsula to Greece, as there is replacement from catchment to catchment by different range restricted species. In Northern Europe the majority of the freshwater fauna is made up of widespread cosmopolitan species.

Molluscs biodiversity in freshwater springs

The Family Hydrobiidae currently has the highest diversity of species in Europe. These species are frequently restricted to a small number of freshwater springs. The main diversity is found in the Mediterranean regions, with areas of high diversity found in the limestone regions of Iberian Peninsula, French Mediterranean, Italy, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, the Former Yugoslav Republic of Macedonia and Greece. There is also high diversity seen in Germany, Austria and Poland.

Molluscs biodiversity in freshwater groundwater systems

The Family Hydrobiidae and Moitessieridae are more restricted to underground waters, only being recorded in outflow points (springs, rivers) and rarely been sampled in situ. These are also present in key areas, contributing to the regions of highest diversity of species in Europe, especially found in the limestone regions of Mediterranean (e.g. the Iberian Peninsula, French Mediterranean, Italy, Slovenia, Croatia, Bosnia and Herzegovina, Montenegro, FYROM and Greece) and in the areas near the Alps to the Carpathians (Germany, Austria to Bulgaria, Romania, Poland).

Molluscs biodiversity in ancient lakes

Lake Ohrid is a World Heritage Site, spanning three countries and has the largest freshwater molluscs diversity of the Balkan lakes, and the majority of these species are listed as threatened. However there are a considerable number of other ancient lakes (e.g. Prespa, Skadar), in Albania, Greece, Montenegro and Macedonia (Albrecht et al. 2009) all containing numerous, often endemic, freshwater species, and increasing numbers of cryptic endemic species have been recognized in these lakes, so their importance is still increasing. The issue is complex, as some lakes are divided between more than one country, making catchment management plans more complicated.
Congeria kusceri is a freshwater bivalve restricted to subterranean waters in the Balkan region, listed in Annex II of the EU Habitats Directive. It was rediscovered in the 1980's, and prior to this, the species was thought to be subfossil only. This species requires unpolluted water, and is currently assessed as Vulnerable. Photo © Helena Biljandra.
Molluscan biodiversity in river systems

Europe contains several major river systems that have endemic species present in their catchment. The Danube (Donau) river is the second longest in Europe, and passes through 14 countries. The Danube delta is a UNESCO World Heritage Site in part for the biological diversity, and some species are restricted to lagoons and channels in the delta. Other notable rivers include the lower Dnieper River in Ukraine, the Sava River in Slovenia, and other tributaries of the Danube River which also have a proportion of endemic species.

The top five EU countries in terms of freshwater mollusc species richness (in descending order) are: France, Spain, Italy, Greece and Germany (Table 5). However, Austria and Slovenia can be highlighted as holding an important number of species within a small area.

The high number of species in some of these countries may reflect high levels of taxonomic research. If more research into freshwater mollusc diversity would be initiated, for example, in Greece, it is not unlikely that the number of freshwater species in this country may substantially increase.

Recent work in Bulgaria has seen an increase in the number of described species, and so as work continues in the more remote parts of some countries, the number of range restricted species may well be found to increase further.

3.5.2 Distribution of threatened species

The majority of the threatened freshwater molluscs are found within the Mediterranean zone, and the patterns follow closely the areas of endemism (see Figure 9). Areas of threat include the Iberian Peninsula, where springs are being converted to off-take water, and the vegetation is removed to improve the “cleanliness” of the offtake area, thus removing habitats (Verdu and Galante 2009). In the French Mediterranean area, threatened species include the groundwater and spring dependant species, for example, in the areas surrounding Marseille and Nice, several species are known to have been declining, and some have not been seen for decades. Similar factors threaten the endemic species in Germany and Austria, albeit to a lesser degree. In Greece, the major threats lie in the continental areas, around the major cities and the ancient lakes.

3.5.3 Distribution of endemic species

Figure 10 shows the distribution of endemic freshwater mollusc species (e.g. those that are unique to Europe and are found nowhere else in the world).

The majority of the freshwater molluscs are endemic to Europe, with the areas of high endemism reflecting the areas of high species and subspecies diversity. Similar patterns of endemism are seen for the Gastropods and the freshwater mussels, with an increase in endemism from north to south, and high levels of endemism throughout the Mediterranean zone.

The majority of the range-restricted species are found in the family Hydrobiidae, and the highest numbers of threatened species also lie in this group. These species are either restricted to a few freshwater springs, lakes or single groundwater catchment system, all of which are easily impacted by off-take of water for domestic and agricultural supplies. The family is amongst the most

<table>
<thead>
<tr>
<th>Country</th>
<th>Total number of species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>118</td>
</tr>
<tr>
<td>Belgium</td>
<td>74</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>85</td>
</tr>
<tr>
<td>Cyprus</td>
<td>5</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>76</td>
</tr>
<tr>
<td>Denmark</td>
<td>64</td>
</tr>
<tr>
<td>Estonia</td>
<td>58</td>
</tr>
<tr>
<td>Finland</td>
<td>55</td>
</tr>
<tr>
<td>France</td>
<td>215</td>
</tr>
<tr>
<td>Germany</td>
<td>124</td>
</tr>
<tr>
<td>Greece</td>
<td>132</td>
</tr>
<tr>
<td>Hungary</td>
<td>77</td>
</tr>
<tr>
<td>Ireland</td>
<td>57</td>
</tr>
<tr>
<td>Italy</td>
<td>138</td>
</tr>
<tr>
<td>Latvia</td>
<td>70</td>
</tr>
<tr>
<td>Lithuania</td>
<td>64</td>
</tr>
<tr>
<td>Luxembourg</td>
<td>51</td>
</tr>
<tr>
<td>Malta</td>
<td>11</td>
</tr>
<tr>
<td>Netherlands</td>
<td>74</td>
</tr>
<tr>
<td>Poland</td>
<td>79</td>
</tr>
<tr>
<td>Portugal</td>
<td>56</td>
</tr>
<tr>
<td>Romania</td>
<td>75</td>
</tr>
<tr>
<td>Slovakia</td>
<td>77</td>
</tr>
<tr>
<td>Slovenia</td>
<td>96</td>
</tr>
<tr>
<td>Spain</td>
<td>157</td>
</tr>
<tr>
<td>Sweden</td>
<td>72</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>76</td>
</tr>
</tbody>
</table>

Table 5. Number of freshwater mollusc species in the 27 current EU Member States (excluding introduced species).
Figure 9. Distribution of threatened freshwater molluscs in Europe

Figure 10. Distribution of endemic freshwater molluscs species in Europe
highly threatened group worldwide, and there are also regions of high species diversity for this family in North America and Australia (Lydeard et al. 2004).

Ancient lakes, such as Ohrid and Prespa, deserve special attention, as they have a fascinating radiation of pyrguline Hydrobiidae. Recently, it was discovered that they are also home to a cryptic diversity in the other prosobranch families Valvatidae and Bithyniidae. Most of the narrow-range endemics restricted to these lakes are threatened. Given the rapid deterioration of the quality of some of these lakes, it is now likely that some of their endemic species will go extinct before their scientific description (based on museum material collected in the 1980’s) is completed.

### 3.6 Major threats to freshwater molluscs in Europe

The major threats to each species were coded using the IUCN Threats Classification Scheme. A summary of the relative importance of the different threatening processes is shown in Figure 11.

There are multiple sources of threats to freshwater molluscs in Europe. In the majority of cases there is no single source of threats to each species, but usually a series of threats that combine to lead to declining populations. In general, most threatened species are suffering as a consequence of declining water quality in the freshwater rivers and lakes, throughout Europe. This is mainly due to intensification of agriculture (affecting 36% of the species) and urbanisation (poor sewage control, impacting 29% of the species). The other major threat is the over-utilization of water which impacts 33% of freshwater species.

By contrast, although invasive species are now widely present, and have had an impact on some species, in general their presence is not a significant factor and impacts less than 5% of the threatened species.

Based on current climate change scenarios, the increased frequency and intensity of droughts may become another major threat. In certain areas of Europe, springs are already seeing declines in recharge during summer drought events.

#### Pollution and water quality decline

Freshwater molluscs are very sensitive to the changes in water quality. The decline in habitat quality in the freshwater rivers and lakes is a problem throughout Europe, however the cause of habitat decline is quite variable from region to region.

**Raw sewage:** This is still an important problem in certain parts of Southern and Eastern Europe, where sewage management has yet to meet the standards required by the EU Water Directive. Even in Western Europe, poor control can sometimes lead to sudden discharges during storm events, leading to contamination of rivers and groundwaters that would otherwise be in a good state.

**Fertilizers and Pesticides:** The strong intensification of agriculture throughout Europe in the last 50 years...
has lead to an increased use of chemical fertilizers and pesticides. This has lead to increased levels of phosphates and nitrates in both surface water and groundwater. Even in regions that are sparsely populated, the impact can be seen in the loss of the spring-snails that are sensitive to changes in water quality (van Damme et al. 2010). Consequently species are rapidly disappearing in particular in the lowlands where urban expansions and agricultural exploitation are highest.

Mining waste: There are relatively few areas in Europe where the habitats in rivers are declining as run-off from mining. The most widely publicised case was the impact on the Danube from a waste settlement tank in Hungary which impacted tens of kilometres of river, which affected some restricted range endemic species.

Dam construction
In Europe, there are a high number of dams, with most construction on major rivers for electric generation for industrial and domestic supplies. In upland areas, damming to create water storage reservoirs impacts the upper reaches of the rivers. In general, data from Europe and North America, indicate biodiversity loss, whereas gains in widespread cosmopolitan species appear to be the result of dam construction (Seddon 2000).
Dam construction can impact freshwater molluscs in different ways, depending on the life-history strategy of the animal and the impact of the construction of dams is not uniformly negative or positive (Seddon 2000). Dams, and their reservoirs, hence do form insurmountable barriers that will:

- cut off upstream populations of molluscs from downstream populations,
- lead to a loss of the underlying riverine habitats and their fauna,
- cause changes downstream of the dam, where part of the river is impacted by fluctuations in water level and changing water-chemistry and water temperatures, potentially impacting life-cycles through changing reproductive patterns and reproductive success
- loss of fish-host movement potentially changing freshwater mussel reproductive success

**Modification of water sources and changes to flow regime**

Europe has witnessed an extensive modification of aquatic habitats for centuries. Reasons include:

- Realigning river channels to control flood events
- Realigning river channels for transportation (road construction, navigation channels)
- Adapting spring-sources to off-take the water to local villages, removing any fringing vegetation, and concreting the base of the pool
- Adapting thermal springs to use the water for bathing, again removing any fringing vegetation, and concreting the base of the pool

**Climate change and extreme weather events**

The increase of frequency and intensity of droughts pose a problem to freshwater molluscs, especially in the Mediterranean area. Several rivers and springs now have periods where the outflow completely dries up, causing the extinction of the population. Freshwater molluscs are also sensitive to changes in water quality and extreme weather events, such as flooding, can have serious consequences, altering for example the level of sediment, this can either bury the smallest species, destroy their habitat or clog filter feeders.

**3.7 Population trends**

Documenting population trends is key to assessing species status, and a special effort was made to determine which species are believed to be significantly declining, stable, or increasing. However, the vast majority (82.6%) of European freshwater molluscs have unknown population trends, while 10.6% are decreasing, 6.3% are considered

In April 2010, an unusual amount of rain flooded the river near Kics (Hungary), leaving a 30 to 50 cm thick mud layer, which totally destroyed the habitat of *Theodoxus prevostianus* which lives on the rocks at the bottom of the river. 99% of the population of this freshwater snail was destroyed in this river and it is considered as Endangered. This species is now being reintroduced to several other springs to ensure its survival on the long-term (Feher et al. 2011). Photo © Sándor Ötvös and Zoltán Feher.
stable and only 0.5% are increasing (see Figure 12). These are likely to be considerable underestimates of the number of species declining due to a lack of good objective trend data.

In comparison, 16% of aquatic plants (Bilz et al. 2011), 17% of freshwater fishes (Freyhof and Brooks 2011), 26% of dragonflies (Kalkman et al. 2010), 27% of mammal species, 42% of reptile species (Cox and Temple 2009) and 59% of amphibian species (Temple and Cox 2009) are known to have declining populations. Just under a quarter (23%) of all European bird species are decreasing in numbers, based on population trend data between 1990 and 2000 (BirdLife International 2004a). Freshwater species groups have the highest proportions of species with unknown population trends, with 83% of freshwater molluscs and 76% of freshwater fishes falling into this category (Freyhof and Brooks 2011).

Monitoring data is urgently required to review the population trends of European freshwater molluscs, however the levels of threatened species indicate, that the probability is, that a high proportion of the species have been declining over the last 10-30 years. Anecdotal information suggests that in the Balkan region there has been a substantial decline in the quality of habitats since the 1980’s, whereas in western Europe the major decline trends appear to have been between 1920’s and 1960’s (based on data from national mapping projects).

Figure 12. Population trends of European freshwater molluscs
The “Chapa” *Iberus gualtieranus* is endemic to the south of Spain, where it is greatly appreciated as food. Wildfires, urbanisation and agricultural development led to the loss of important parts of its habitat and it is now considered to be Endangered. Since 2005, a Conservation Plan has been developed within the Programme for Conservation and Sustainable Use of Land Snails of Andalusia and successful captive breeding has been set up. Photo © Antonio Ruiz/CMA Junta de Andalusia.
4. Terrestrial molluscs – Species selection and results

4.1 Introduction

All terrestrial molluscs belong to the class of the Gastropods. The majority of the species are pulmonates, i.e. they have a lung and breathe air. Their body size varies from a few millimetres to several centimetres. They secrete mucus to keep their bodies from drying out and to support their locomotion. Terrestrial molluscs are generally hermaphrodites, which means that they have the sexual organs of both sexes, but they still need to meet another individual to reproduce. They will court each other for several hours and then inseminate each other to produce eggs. Terrestrial molluscs are usually herbivorous, eating leaves, stems, soft bark, fruit, vegetables, fungi and algae, thanks to their “radula”, sometimes compared to a tongue, with multiple, almost identical rows of teeth. However there are some species that are predatory carnivores or omnivores.

4.2 Species selection

For this project, it was not considered possible, within the timescale allowed, to assess and evaluate all c. 2,700 species listed at the time, so two superfamilies were prioritised, which contained many of the European Habitats Directive species, namely Helicoidea (with the Families Helicidae, Hygromidae, Helicodontidae, Trisexodonidae, Cochlicellidae, Elonidae) and Pupillioidea (with the Families Pupillidae, Lauridae, Enidae, Orculidae, Vallonidae, Vertiginidae, Speleodontidae, Argniidae, Gastrocoptidae) (see Table 6). These families have a wide European distribution and cover a range of different habitats.

The superfamily Pupilloidea has a range of genera that are found across Europe, on rock crags, marshes, woodland and grassland, with taxa that climb or are ground-dwelling. From this family, 4 species of Vertigo and 16 species of Leiostyla are listed in the Annexes of the EU Habitats Directive.

The additional families including the semi-slugs (Vitrinidae), are found from montane to coastal areas throughout Europe, and are potentially more susceptible to increased levels of drought.

In contrast, the slug families (e.g. Arionidae, Limacidae) are currently undergoing taxonomic reviews, and hence
the distributional data were considered to be very variable in quality, although there are distinct areas of endemism, with some species of conservation interest in the montane regions (e.g. Carpathians, Alps) as well as on the Mediterranean islands (e.g. Corisca). Therefore, it was not considered appropriate to review these taxa until the nomenclature and species definition limits become more stable. Other families that were not selected, including the family Clausiliidae, had many species in some regions with limited geographical data and were also undergoing taxonomic review resulting in new species descriptions, so were not included in this assessment process, although, certain species are classified as threatened on national Red Lists or are included on the EU Habitat Directives Annexes, so this family should be one of the next priorities for assessment in Europe.

A few “Prosobranch” families were selected to provide different phyletic range in the selected families; the Family Aciculidae included range-restricted and widespread taxa, found in a variety of habitats, with taxa that were nationally Red Listed and the family Cochlostomidae included ‘hotspot’ species from the Balkans and the Iberian Peninsula, with taxa that have males and females, rather than hermaphrodites like most of the other terrestrial molluscs.

Within the families selected, all the species were included, amounting to 1,233 species (see Table 6 for the selected families and the number of species per family).

Only one species among these families (Oestophora donothae) was considered to be likely introduced in Europe and was therefore assessed as Not Applicable.

4.3 Threat status of selected terrestrial molluscs

The status of selected terrestrial molluscs was assessed at two regional levels: geographical Europe and the EU 27. Among the species assessed at the European level, at least 20% (246 species) are considered threatened, from which at least 4.3% are Critically Endangered, 4.1% Endangered and 11.5% Vulnerable (Table 7 and Figures 13 and 14). Eleven of the 53 Critically Endangered species are considered Possibly Extinct and three species are listed as already Extinct. A further 14.8% of the species (182 species) are classified as Near Threatened.

Within the EU 27, the pattern is very similar: at least 20.7% of the selected terrestrial molluscs (235 species) are threatened with extinction, of which at least 4.6% are Critically Endangered, 4.3% Endangered and 11.8%...

Table 6. Diversity and endemism in the selected terrestrial mollusc families in Europe*.

<table>
<thead>
<tr>
<th>Class</th>
<th>Order</th>
<th>Family</th>
<th>Europe</th>
<th>EU 27</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Number of species</td>
<td>Number of endemic species</td>
<td>% of endemic species</td>
</tr>
<tr>
<td>Gastropoda</td>
<td>Architaenioglossa</td>
<td>Aciculidae</td>
<td>52</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Diplommatinidae</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Stylommatophora</td>
<td>Arginidae</td>
<td>30</td>
<td>30</td>
<td>100%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bradybaenidae</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chondrinidae</td>
<td>55</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cochlicellidae</td>
<td>27</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enidae</td>
<td>155</td>
<td>149</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Helicidae</td>
<td>224</td>
<td>215</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Helicodontidae</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hygromiidae</td>
<td>397</td>
<td>382</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lauriidae</td>
<td>37</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Orculidae</td>
<td>43</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pupillidae</td>
<td>5</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>Trissexodontida</td>
<td>24</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Valloniidae</td>
<td>13</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vertiginidae</td>
<td>38</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vitrinidae</td>
<td>56</td>
<td>53</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>1233</td>
<td>1161</td>
<td>94%</td>
</tr>
</tbody>
</table>

* This table includes species that are native or naturalized since before AD 1500; species introduced after 1500 are not included. Species of marginal occurrence in Europe and/or the EU are included. For the EU 27 assessment, the Not Evaluated species (species which do not occur in the EU) are excluded.
In addition, 8.4% of species are considered as Near Threatened.

Even though the percentage of Data Deficient species is lower than for the freshwater molluscs, it is still significant, with 10.1% of the species (125 species) for which the level of information is insufficient to determine the risk of extinction at the European level. Here again, once more data is available, some of these species might well prove to be threatened. The main reasons for the Data Deficiency were taxonomic issues, lack of recent observations and the hidden life history of the species.

One species (Oestophora dorotheae) was considered as Not Applicable, as it was likely introduced to the Iberian peninsula at Gibraltar from Morrocco.

In comparison, 44% of freshwater molluscs, 37% of freshwater fishes, 23% of amphibians, 19% of reptiles, 15% of mammals and dragonflies, 13% of birds, 9% of butterflies and 7% of the aquatic plants, the groups that have been comprehensively assessed in Europe, are threatened with extinction (Freyhof and Brooks 2011, Temple and Cox 2009, Cox and Temple 2009, Temple and Terry 2007, Kalkman et al. 2010, BirdLife International 2004a, van Swaay et al. 2010, Bilz et al. 2011). Additional European Red Lists assessing a selection from species groups indicate that 12% of the crop wild relatives and 11% of the saproxylic beetles are also threatened (Nieto and Alexander 2010, Bilz et al. 2011).

If we consider only the species for which sufficient data are available to assess the threat status (i.e. excluding Data

Table 7. Summary of numbers of selected European terrestrial molluscs within each category of threat

<table>
<thead>
<tr>
<th>IUCN Red List categories</th>
<th>No. species Europe (no. endemic species)</th>
<th>No. species EU 27 (no. endemic species)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extinct (EX)</td>
<td>3(3)</td>
<td>2(2)</td>
</tr>
<tr>
<td>Critically Endangered (CR)</td>
<td>53(52)</td>
<td>52(51)</td>
</tr>
<tr>
<td>Endangered (EN)</td>
<td>51(49)</td>
<td>49(45)</td>
</tr>
<tr>
<td>Vulnerable (VU)</td>
<td>142(135)</td>
<td>134(122)</td>
</tr>
<tr>
<td>Near Threatened (NT)</td>
<td>182(176)</td>
<td>156(138)</td>
</tr>
<tr>
<td>Least Concern (LC)</td>
<td>677(622)</td>
<td>625(389)</td>
</tr>
<tr>
<td>Data Deficient (DD)</td>
<td>125(124)</td>
<td>120(99)</td>
</tr>
<tr>
<td><strong>Total number of species assessed</strong></td>
<td><strong>1233(1161)</strong></td>
<td><strong>1138(846)</strong></td>
</tr>
</tbody>
</table>

* This table does not include the Not Applicable species in Europe and/or the EU (species introduced after AD 1500 or species of marginal occurrence). For the EU 27 assessment the Not Evaluated species (species which do not occur in the EU) are also excluded.

Figure 13. Red List status of selected terrestrial molluscs in Europe

Figure 14. Red List status of selected terrestrial molluscs in the EU 27
Deficient and Extinct species), 22.3% of the European terrestrial molluscs assessed in this project and 23.1% of EU 27 species are threatened with extinction.

Over 90% of the terrestrial molluscs assessed are endemic to Europe.

Two species are considered Least Concern at the European level, but Vulnerable at the EU 27 (Chondrula werneri and Xerocampylaea zelebori), as they are known from few sites in the EU 27 which face localized threats.

4.4 Status by taxonomic groups

This project focused on seventeen families, for which all the species native to Europe have been assessed (see section 1.2). As shown in Table 8, there are considerable differences in the number of species and in the threat status, with the Lauriidae and Trissexodontidae being the most threatened, while the Pupillidae, the Bradybaenidae (consisting of only one species), the Orculidae and the Valloniidae are the least threatened. The bulk of the species are included in three families: the Hygromiidae, Helicidae and Enidae.

Many terrestrial molluscs survive the heat period by aestivation, either in shaded vegetation or by climbing on plants or man-made structures such as fences. They seal the opening of their shell with a membrane of dried mucus, to prevent water loss. Photo © Nat Martel.

Table 8. Red List Status (at the European level) of the selected terrestrial molluscs by taxonomic family*.

<table>
<thead>
<tr>
<th>Family</th>
<th>Total*</th>
<th>EX</th>
<th>CR</th>
<th>EN</th>
<th>VU</th>
<th>NT</th>
<th>LC</th>
<th>DD</th>
<th>% Threatened</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACICULIDAE</td>
<td>52</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>12</td>
<td>14</td>
<td>21</td>
<td>4</td>
<td>25.0%</td>
</tr>
<tr>
<td>ARGNIDAE</td>
<td>30</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>8</td>
<td>17</td>
<td>1</td>
<td>13.3%</td>
</tr>
<tr>
<td>BRADYBAENIDAE</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>CHONDRINIDAE</td>
<td>55</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>12</td>
<td>9</td>
<td>31</td>
<td>3</td>
<td>21.8%</td>
</tr>
<tr>
<td>COCHLICELLIDAE</td>
<td>27</td>
<td>0</td>
<td>4</td>
<td>1</td>
<td>2</td>
<td>5</td>
<td>12</td>
<td>3</td>
<td>25.9%</td>
</tr>
<tr>
<td>DIPLOMMATINIDAE</td>
<td>60</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>7</td>
<td>44</td>
<td>2</td>
<td>11.7%</td>
</tr>
<tr>
<td>ENIDAE</td>
<td>155</td>
<td>0</td>
<td>4</td>
<td>3</td>
<td>12</td>
<td>21</td>
<td>93</td>
<td>22</td>
<td>12.3%</td>
</tr>
<tr>
<td>HELICIDAE</td>
<td>224</td>
<td>0</td>
<td>14</td>
<td>13</td>
<td>22</td>
<td>35</td>
<td>109</td>
<td>31</td>
<td>21.9%</td>
</tr>
<tr>
<td>HELICODONTIDAE</td>
<td>16</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>11</td>
<td>1</td>
<td>12.5%</td>
</tr>
<tr>
<td>HYGROMIIDAE</td>
<td>397</td>
<td>2</td>
<td>19</td>
<td>26</td>
<td>46</td>
<td>49</td>
<td>218</td>
<td>37</td>
<td>22.9%</td>
</tr>
<tr>
<td>LAURIIDAE</td>
<td>37</td>
<td>1</td>
<td>5</td>
<td>2</td>
<td>8</td>
<td>3</td>
<td>13</td>
<td>5</td>
<td>40.5%</td>
</tr>
<tr>
<td>ORCULIDAE</td>
<td>43</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>33</td>
<td>4</td>
<td>7.0%</td>
</tr>
<tr>
<td>PUPILLIDAE</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>1</td>
<td>0.0%</td>
</tr>
<tr>
<td>TRISSEXODONTIDAE</td>
<td>24</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>6</td>
<td>8</td>
<td>9</td>
<td>0</td>
<td>29.2%</td>
</tr>
<tr>
<td>VALLONIIDAE</td>
<td>13</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>3</td>
<td>8</td>
<td>1</td>
<td>7.7%</td>
</tr>
<tr>
<td>VERTIGINIDAE</td>
<td>38</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>21</td>
<td>6</td>
<td>15.8%</td>
</tr>
<tr>
<td>VITRINIDAE</td>
<td>56</td>
<td>0</td>
<td>4</td>
<td>1</td>
<td>5</td>
<td>10</td>
<td>32</td>
<td>4</td>
<td>17.9%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1233</td>
<td>3</td>
<td>53</td>
<td>51</td>
<td>142</td>
<td>182</td>
<td>677</td>
<td>125</td>
<td>20.0%</td>
</tr>
</tbody>
</table>

* Does not include species classed as Not Applicable (NA).
4.5 Spatial distribution of species

4.5.1 Species richness of terrestrial molluscs

Information on the species richness of terrestrial molluscs and the families selected for assessment have already been given in Section 4.2 and Table 6 respectively. Figure 15 presents the species richness of the assessed groups. It should be noted that this map is not representative of the distribution of all terrestrial molluscs in Europe, but only of the selected families.

In Europe, the highest levels of species diversity are found in the Mediterranean, but large numbers of species are also found in the following biogeographical regions: Alpine, Continental, Macaronesian, and Pannonian. However in the Macaronesian Islands due to the highly restricted ranges, sometimes only a few square metres, of many species, the species diversity in this region is not clear on Figure 15. Species richness is relatively poor in the remaining areas north of the Alps. The reasons for this diversification are multifold, but the most important are (1) presence of varied small scale habitat structures, which are suitable for molluscs, (2) presence of geological substratum preferred by molluscs (mainly limestone), and (3) the effects of the glaciations and the slow resettlement of the northern territories by molluscs. The Mediterranean climate is not unsuitable for terrestrial molluscs, as there are typically large amounts of precipitation during the winter season, and a dry summer period, which many species survive by aestivation.

The European Atlantic islands and Mediterranean islands hold a significant proportion of narrow-range endemic species, some of which are listed as threatened species either at the national or global levels. Given the high number of endemic species identified in these parts of Europe, the current IUCN Red List of Threatened Species certainly under-represents the threat status to the European terrestrial mollusc fauna. To exemplify the contribution of these islands to the degree of endemism in a country, three such systems have been treated separately: Spain with the Balearic and Canary Islands, Portugal with Madeira and the Azores, and Greece with the Aegean, Cycladic and Dodecanese Islands, and Crete (see Figure 16). In all these systems, the contribution of the island faunas to the total degree of endemism is noteworthy. On the Atlantic islands, there is an enormous number of endemic taxa present, exceeding the continental amount by almost 100%. In contrast, the Greek islands hold less endemic taxa if compared to the mainland, which may be explained by the extraordinarily varied geography of the continental part of Greece.

Figure 15. Species richness of selected families of European terrestrial molluscs
Figure 16. Number of species per island in comparison to continental country

Figure 17. Number of species and subspecies per country
Looking at the total species richness of species of terrestrial mollusc per country, Greece with more than 1,000 species is the country with the highest species richness in Europe followed by Italy, Spain, and France (see Figure 17). Yugoslavia here includes Serbia, Kosovo and the Voivodina, Montenegro is listed as a separate country, and FYROM means the Former Yugoslav Republic of Macedonia.

However, for the families considered in this project, the top five EU countries in terms of terrestrial molluscs species richness are (in descending order): Spain, Greece, Italy, France and Portugal (Table 9). Austria and Slovenia can be highlighted as holding an important number of species within a small area.

<table>
<thead>
<tr>
<th>Country</th>
<th>Total number of species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>123</td>
</tr>
<tr>
<td>Belgium</td>
<td>50</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>99</td>
</tr>
<tr>
<td>Cyprus</td>
<td>39</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>69</td>
</tr>
<tr>
<td>Denmark</td>
<td>38</td>
</tr>
<tr>
<td>Estonia</td>
<td>30</td>
</tr>
<tr>
<td>Finland</td>
<td>33</td>
</tr>
<tr>
<td>France</td>
<td>219</td>
</tr>
<tr>
<td>Germany</td>
<td>103</td>
</tr>
<tr>
<td>Greece</td>
<td>274</td>
</tr>
<tr>
<td>Hungary</td>
<td>68</td>
</tr>
<tr>
<td>Ireland</td>
<td>36</td>
</tr>
<tr>
<td>Italy</td>
<td>265</td>
</tr>
<tr>
<td>Latvia</td>
<td>35</td>
</tr>
<tr>
<td>Lithuania</td>
<td>35</td>
</tr>
<tr>
<td>Luxembourg</td>
<td>46</td>
</tr>
<tr>
<td>Malta</td>
<td>21</td>
</tr>
<tr>
<td>Netherlands</td>
<td>46</td>
</tr>
<tr>
<td>Poland</td>
<td>76</td>
</tr>
<tr>
<td>Portugal</td>
<td>187</td>
</tr>
<tr>
<td>Romania</td>
<td>115</td>
</tr>
<tr>
<td>Slovakia</td>
<td>74</td>
</tr>
<tr>
<td>Slovenia</td>
<td>103</td>
</tr>
<tr>
<td>Spain</td>
<td>416</td>
</tr>
<tr>
<td>Sweden</td>
<td>51</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>53</td>
</tr>
</tbody>
</table>

Table 9. Number of terrestrial mollusc species in the selected families in the 27 current EU Member States (excluding introduced species).

4.5.2 Distribution of threatened species

Figure 18 shows the areas where most of the threatened terrestrial molluscs assessed in this project are found.

The majority of threatened terrestrial molluscs in Europe occur on the Macronesian Islands, i.e. the Canary Islands, the Azores and Madeira. If compared with the continents, these islands are showing a trend up to tenfold the numbers of threatened species.

There are several reasons for this remarkable result:

- due to an extremely structured environment with large mountains, deep ravines ("barrancos") and a rich vegetation, these islands are also very rich in species,
- distribution ranges are usually very small in the islands, and many species are only known from a single site or very few places,
- there is a massive pressure due to the increasing urbanisation in these islands, in relation to the growing human population and the ongoing expansion of the tourist infrastructure,
- even small-scaled disturbances, such as a single road, can destroy the habitat of these narrow-range endemic species, and there is little chance of recovery from neighbouring areas.

For the continent, the situation is different. Here, threatened species are mainly in the lower categories like Vulnerable or Near Threatened. One of the reasons is the fact that in many cases, there is not enough information on the actual distribution of a species and there is a high uncertainty as to whether or not there are unknown populations hidden in areas that have not been surveyed yet. It has to be taken into account that the ratio of malacologists (experts studying molluscs) vs. the area to investigate is drastically dropping when investigating larger land masses. Relatively small islands are much easier to survey than continents, where investigations in litter-dwelling invertebrates usually have only the character of random examinations. For this reason, there is probably a general underestimate concerning the conservation status of terrestrial mollusc species living on the continent.

Another aspect has to be considered: due to its restriction to selected families and the rigid application of the species approach, there is a certain bias in this investigation as it ignores a considerable part of the continent's molluscs diversity. Families with high number of species in the Central and Eastern Mediterranean basin like the Clausiliidae, Oxychilidae, Pristilomatidae etc. are known to also include threatened narrow-range species and
Figure 18. Distribution of threatened terrestrial mollusc species of the selected families in Europe

Figure 19. Distribution of endemic terrestrial mollusc species of the selected families in Europe
subspecies. In particular, the phenomenon of geographical subspecies, which contribute an enormous proportion to the overall genetic diversity are not considered and therefore lost. Thus it is well possible that a more comprehensive treatment of the European terrestrial snail fauna will result in a more balanced result.

4.5.3 Distribution of endemic species

Figure 19 shows the distribution of endemic terrestrial mollusc species (e.g. those that are unique to Europe and are found nowhere else in the world).

Similar to the increase of species and subspecies numbers from north to south (see figure 15), there is clinal increase of narrow-range endemism towards the Mediterranean countries (Wells and Chatfield 1992). Several hot spots can be identified here: (1) the Macaronesian Islands comprising the Canary Islands, the Azores, and Madeira; (2) Italy with a particular focus on Sicily; (3) the Balkan radiation culminating in mainland Greece with a considerable contribution from Crete; and (4) the Alpine arc ranging from the Pyrenees to the Carpathian Mountains.

**Macaronesian Islands**
A comprehensive and annotated compilation of all taxa described from these islands has been published by Bank et al. (2002). Currently, there are 230 taxa known to be endemic to the Canary Islands (i.e. 82 % endemism), 169 for Madeira (i.e. 68 % endemism), and 49 to the Azores (i.e. 42 % endemism).

The main radiating group on the Canary Islands are the Enidae (the genus *Napaeus* with 57 species), Vitriinidae (21 species), Hygromiidae (*Monilearia* with 17 species, *Canariella* with 23 species), and Helicidae (*Hemicyla* with 39 species, *Theba* with 5 species). It has to be noted that in other families like the Discidae and Ferrusaciidae, a comparatively high number of species can be found. This fauna shows some relationship to that of northwestern Africa and, less prominently, to the Iberian Peninsula.

The molluscan fauna of Madeira with its satellite islands Porto Santo and Las Desertas has been revised by Seddon (2008). Here, the dominant families are the Lauriidae with an enormous radiation of *Leiostyla* (34 species), and the Hygromiidae with 65 endemic species from several also endemic genera.

Finally, the Azores show a radiation in Oxychilidae, particularly in the *Oxychilus* subgenera *Ortizius* and *Drouetia*.

**Italy**
The Sicilian area is particularly rich in endemic species. Here, 52 % of the taxa are endemic, which is much higher compared to the Italian mainland with 37 % endemism. In Sicily, this considerably high rate is due to a small

Figure 20. Number of molluscs species and subspecies endemic to various Balkan countries, with the % of the endemic taxa in comparison with the total molluscs fauna of the country.
radiation of the clausilid genus *Charpenteria* (Siciliaria), and the polytypic species of *Rupestrella* (Chondrinidae) and *Murella* (Helicidae). This is in contrast to mainland Italy, where the highest degree in endemism on species level can be found in the freshwater snails Hydrobiidae.

**Balkans**

One of the richest areas in Europe in terms of endemism of continental molluscs is the Balkan region. In Figure 20, the current number of species and subspecies is shown for various Balkans countries, which cover this ill-defined area more or less completely. Again, there is an enormous disproportion in the number of endemic taxa found in Greece. Interestingly, this trend continues to the eastern Mediterranean area, the degree of endemism for Turkey has quite recently been calculated as being 65 %, based on a data stock of 730 species level taxa (Gümüş and Neubert 2009). Obviously, this area is particularly rich in molluscs, while for example both, continental Spain and Italy reach a value of 37 % endemism. The Balkan fauna is a radiation centre for several families of terrestrial molluscs (such as the Clausiliidae, Oxychilidae, Pristilomatidae and others).

Yugoslavia here includes Serbia, Kosovo and the Voivodina, Montenegro is listed as a separate country, and FYROM means the Former Yugoslav Republic of Macedonia.

**Alpine Arc**

The alpine arc is well known as a reservoir of endemic plants and animals (Nagy *et al.* 2003). In terms of continental molluscs, the most obvious radiation here is that of the large rock-dwelling species from the Ariantinae (family Helicidae) of the genera *Arianta* and *Chilostoma* or the small prosobranch snails of the subfamily Cochlostomatinae (Diplommatinidae). Still, many problems of the subspecific classification in these groups remain to be resolved, but their study may also reveal intriguing insights into speciation processes during and after the last glaciation periods (Gittenberger *et al.* 2004). The large mountain systems also functioned as a refuge area, and harbored glacial relict species, for example *Cylindrus obtusus* (Draparnaud 1801).

### 4.6 Major threats to terrestrial molluscs in Europe

The major threats to each species were coded using the IUCN Threats Classification Scheme. A summary of the relative importance of the different threatening processes is shown in Figure 21.

According to their habitat, terrestrial molluscs show a differing threat profile when compared to the freshwater molluscs.

**Urbanisation**

Here, the major threat is the continuing destruction of suitable habitats by increasing overflow of settlements into the countryside. This is a particular problem in islands with only limited space available. Endemic species with usually quite small distribution areas have to compete against strong recreational and land-use pressures from
the tourism industry. For example, specialized and vulnerable habitats like sand dunes are the target of recreational activities. Another side effect of increasing urbanisation is the expansion of agriculture, and over-use of freshwater resources. The influence of urbanisation is probably less important in continental areas, where species usually inhabit larger habitats and thus can retreat to less impacted subregions. However, this needs to be examined on a species by species basis, as in some cases, habitat specialists might be affected.

**Agriculture**

Agriculture as well as wood cutting and harvesting are activities that have deeply influenced and changed European environments for millenia. It is almost impossible to evaluate the man-made changes in the composition of the European molluscan fauna. Agriculture radically changes basic environmental factors, and modern farming techniques are treating huge fields with manure and biocides surely raising its impact level in the last decades. Next to the decrease in habitat quality, agriculture also leads to isolation of the remaining non-arable land patches and thus contributes to reductions in species richness and abundance of large areas.

**Recreational activities**

Coastal habitats are transformed or over-used due to recreational activities, but currently the influence of this type of human activity on terrestrial molluscs is not well studied, particularly in the Mediterranean coastal region. The alpine areas of all larger mountain systems in Europe are also transformed for recreation. Persisting snow cover almost automatically leads to the development of large skiing resorts with their associated negative impacts to the environment. Very often, alpine summits are refuge areas or habitats of endemic species and thus threatened by the effects of ski slope preparations like soil compaction as well as soil erosion, trampling, removal or movement of sheltering boulders, and destruction of vegetation.

**Fire**

Wildfires have significant effects on Mediterranean landscapes. Sometimes, fires may be started unintentionally by people camping and/or barbecuing outside, but burning is also traditionally used to clear fields, field margins and scrub. In many cases, wildfires are also used to clear ground for construction, which is supported or tolerated by legislation in some countries. From the point of view of terrestrial molluscs, fires have mostly negative impacts. This is notably true for those species that survive the dry season by aestivating on the upper parts of vegetation or hiding in the leaf litter.

However, although the current populations are killed completely by fire, it has been demonstrated that burned areas usually recover quite well. This holds true when the fire is of mosaic occurrence, and when there are enough less or non-affected refuge spots left in the burned area (Kiss and Magnin 2003). Species richness and community diversity are preserved on the long run provided that the time lapse between two successive fires is longer than the time required for recovery, which has been calculated as 5 years (Kiss and Magnin 2006). In contrast, studies of the impact of fire on grassland species in North America saw a significant reduction of species richness and abundance in fire-managed sites (Nekola 2002).

The effect of wildfires may be less important in general, but may have disastrous effect for species with small ranges: the number of remaining populations or specimens may be too small to guarantee recovery. Animal size and population density may also play a role: for example in the case of the large and rare *Tachaeocampylaea* species from Corsica, large rock crevices are needed to support enough surviving specimens for a successfully reproducing population.

**Road construction**

Road construction is another cause for loss of habitat, especially in regions with steep-sided valleys, for example in Greece. In order to create the road along the valley sides, blasting of the rock crags takes place, changing the character of these rocky faces, such that they become unsuitable for decades as habitats for endemic species.

**Mining and quarrying**

Limestone is frequently used to provide stones for road construction, as well as for cement production. In Europe
there are numerous small quarries in operation affecting key habitats for terrestrial molluscs, such as rocky outcrops and their deep crevices. Not only is the loss of habitat due to quarry activities impacting the molluscs, but also the dust from the excavation and the roads leading to the mines can adversely affect the animals. For example, close to the Grotte de Sare in France, extensive quarrying now surrounds the prehistoric site, which was once habitat to various rare species including *Neniatlantia pauli* and *Trissexodon constrictus* in 1980’s, however the area of suitable habitat is much reduced and the quality of woodland further declined though limestone dust scattered through the forest (M. Seddon pers. comm 2010).

**Ecosystem modification**

Grazing is considered another major threat to terrestrial molluscs. The effect of livestock grazing on terrestrial mollusc communities can be multifold; the most important are long-lasting shifts in vegetation structure, loss of shading through the destruction of shrubs, killing of molluscs by trampling and moving of sheltering stones, and soil compaction and erosion. Ausden *et al.* (2005) showed that cattle grazing in a fen resulted in a substantial decrease of populations of *Vertigo moulinsiana*, which is a widespread but rare species assessed as Vulnerable (VU). For the Swiss Jura, Boschi and Baur (2006) studied the effect of different livestock species like horses, cattle, and sheep and concluded that the grazing species had no effect on the composition of the terrestrial mollusc communities. However, species richness and abundance decreased significantly with increasing grazing intensity. A similar investigation in the Bucegi Mts. (Romania) showed that intensified sheep grazing in alpine slopes lowered gastropod species richness (Baur *et al.* 2007). Unfortunately, this type of study is missing for Mediterranean areas, which are under enormous pasturing pressure by sheep and goats. Their negative influence on the terrestrial mollusc communities can only be estimated, but it is very likely that the impact is enormous. Restoration of semi-arid grassland can be achieved by protection against grazing, but the complete loss of large grazing vertebrates would have a negative effect as well, because then, woodland structures would take over. As demonstrated by Karattsiou and Koukoura (2009), short-term protection of selected areas could provide enough time for a reasonable restoration of vegetation, which might also protect species richness and abundance in terrestrial mollusc communities.

Quite interestingly, lack of grazing can also be a threat. For example *Vertigo angustior* is sensitive to changes in habitat, and the ideal habitat needs to be grazed by horses (not cattle or sheep) in order to maintain the correct...
vegetation profile for the site. Without any grazing, the site becomes overgrown, and hence unsuitable for the presence of *Vertigo angustior*. Similar pressures exist for *Vertigo genesii* and *Vertigo geyeri* where some grazing keeps the vegetation in check, and hence conditions remain suitable for the species.

In the UK, on the South Downs, there was a decline in some of the Mediterranean grassland species that reach their northern limit, when the rabbit populations were wiped out by the disease Myxomatosis, leading to grasslands becoming overgrown by weeds, and causing species such as *Monacha cartusiana* to decline.

**Consumption**

In the European cuisine, and especially in the Mediterranean one, many species of terrestrial snails are used as food. *Cornu aspersum* and *Helix pomatia* are terrestrial molluscs used throughout Europe. It is almost impossible to get reliable consumption numbers. Estimates for France, the main consumer, range between 20-40,000 tons of snail meat being sold per year. Meanwhile, snail farms developed to be a remunerative business, and captures from the wild are probably decreasing. *Cornu aspersum* is widespread in southern Europe, and is almost a pest species in some regions. *Helix pomatia* is also not really a concern; its populations are usually relatively rich in specimens. Other species that are used as food are *Eobania vermiculata*, *Cernuella virgata*, *Theba pisana*, *Otala lactea* and *Otala punctata*, and species from the continental Spanish *Iberus* group. Particularly in Spain, many species are wild-collected for the traditional paella. Unfortunately, collectors usually do not distinguish between the species, and larger specimens (and species) are more attractive than smaller ones. This is obviously no problem for extremely abundant species like *Otala punctata* or *Eobania vermiculata*, where consumption has no long-lasting effect on the population density. However, in groups like the *Iberus*-complex, collections from the wild may pose a major problem. This group consists of a number of closely related, polytypic species, which for the laymen’s eye may look quite similar to each other or even to *Eobania vermiculata*. More specialised users systematically collect spectacular taxa like the enigmatic strongly keeled *Iberus gualterianus gualterianus*, which is sold for high prices per specimen. Five of the eight species comprising this group have been assigned a threatened or Near Threatened status, *Iberus alonensis* (NT), *Iberus campesinus* (VU), *Iberus carthaginiensis* (NT), *Iberus gualterianus* (EN), and *Iberus ortizi* (VU). Uncontrolled sampling of these species may drive populations towards extinction, and measures have to be taken to protect this endemic snail group for the future.
4.7 Population trends

As for the freshwater molluscs, a special effort was made to document the population trends of the terrestrial molluscs assessed. However, more than half the species are too poorly known to be able to define any population trend. A reasonable number of species have a stable population trend (about 40%), while 6% are declining and only 0.6% of the species display an increasing population trend (see Figure 22).

In comparison, 11% of the freshwater molluscs, 16% of aquatic plants (Bilz et al. 2011), 17% of freshwater fishes (Freyhof and Brooks 2011), 26% of dragonflies (Kalkman et al. 2010), 27% of mammal species, 42% of reptile species (Cox and Temple 2009) and 59% of amphibian species (Temple and Cox 2009) have declining populations. Just under a quarter (23%) of all European bird species are decreasing in number, based on population trends between 1990 and 2000 (BirdLife International 2004a). Freshwater species have the highest proportions of unknown population trends, with 83% of freshwater molluscs and 76% of freshwater fishes falling into this category (Freyhof and Brooks 2011).

Soosia diodonta is a forest species living in the Carpathians Mountains. It lives on the ground among leaf-litter, or on decaying dead wood. Due to its specific habitat requirement, and the diminution of forest cover across Europe, its population is fragmented and its population trend is unknown. It is assessed as Near Threatened. Photo © Zoltan Feher.
5. Conservation measures

5.1 Protection of habitats and species in Europe

European countries and EU Member States are signatories to a number of important conventions aimed at conserving biodiversity that are particularly relevant to molluscs, including the 1979 Bern Convention on the Conservation of European Wildlife and Natural Habitats, and most importantly, the 1992 Convention on Biological Diversity. Many European countries and other administrative units (states, provinces, etc.) also afford molluscs some form of protective species legislation.

The Bern Convention is a binding international legal instrument that aims to conserve wild flora and fauna and their natural habitats and to promote European cooperation towards that objective. It covers all European countries and some African states. Thirty-nine species of molluscs are listed in the various Annexes of the Bern Convention. Not all of them have been assessed, especially as some are marine species, but at least 16 are considered as threatened, one (Leiostyla lamellosa) is Extinct, and three (Leiostyla abbreviata, Leiostyla cassida and Leiostyla gibba) are Critically Endangered, Possibly Extinct (see Annex 3). European countries and the EU have made the commitment to reduce (or halt) the loss of biodiversity within Europe. This means that not only should extinctions be prevented, but population declines should also be reversed. The result of this Red List shows that a large number of non-marine molluscs are threatened and few have a stable or increasing population trend. Furthermore, the majority of the 623 species of threatened non-marine molluscs are not currently covered by international legislation for their protection. The CBD targets for 2010 were not met, but this baseline data will aid efforts to meet the new targets for 2020.

5.2 Protection of habitats and species in the EU

EU nature conservation policy is based on two main pieces of legislation - the EU Birds Directive⁴ of 1979 and the EU Habitats Directive⁵ of 1992. The main objective of these two directives is to ensure the favourable conservation status (see Box 1) of habitats and species found in the EU.

The Habitats Directive, which aims to protect natural habitats and wild species other than birds, equally applies to the EU’s freshwater, terrestrial and marine regions. It contains a series of Annexes that identify habitats and species of European Union concern. Each Member State is required to identify sites of European importance and to put in place measures for their protection and for their management, combining long-term conservation needs with economic and social activities as part of a sustainable development strategy. These sites, together with those of the Birds Directive, make up the Natura 2000 network - the cornerstone of EU nature conservation policy. The Natura 2000 network has grown over the last 25 years and now includes more than 26,000 protected areas in all Member States combined, with a total area of around 850,000 km² – more than 17.5% of the total EU territory.

In addition, species listed in Annex IV of the EU Habitats Directive are subject to a strict species protection requirements. Annex 3 of this report shows the species included in the protected species Annexes of the Habitat Directive and Appendix II and III of the Bern Convention and their European Red List status.

This small snail (Lozekia transsilvanica) lives mainly in the forests of Hungary and Romania, and is threatened by deforestation. However, several populations occur in protected areas and in Natura 2000 sites and therefore no further conservation is currently needed. It is Least Concern. Photo © Tamas Deli.
In particular there are 39 molluscs species listed on the Annex II and IV of the Habitats Directive, of which 21 are listed as threatened, one is Near Threatened, one Extinct, one Data Deficient and 8 considered Least Concern. The 7 remaining species have not yet been assessed according to the IUCN Red List methodology. This means that the majority of the species listed in the Habitats Directive Annexes are in need of urgent conservation action. Even the species listed as Least Concern or Near Threatened may still merit conservation actions, as many of them originally listed as widespread now show a tendency to decline, even in habitats of conservation interest. The 7 species that were not assessed by the current Red List show signs of decline in parts of their range, or have suffered historical declines and are still in need of conservation effort. Therefore major conservation actions need to be directed towards molluscs in order to save them from extinction. This is clearly highlighted by the fact that, as mentioned above, 623 European freshwater and terrestrial molluscs are threatened either at the European or EU 27 level, only a fraction of them being already protected.

5.3 Conservation management of molluscs in the EU

Since 1992, the EU LIFE and LIFE+ programme have been offering financial support for species and habitat conservation projects throughout the EU. In particular, the current LIFE+ programme primarily supports the implementation of the Birds and Habitats Directives and the establishment of the Natura 2000 network. Projects involve a variety of actions including habitat restoration, site purchases, communication and awareness-raising, protected area infrastructure and conservation planning.

Over the last 20 years, LIFE has co-financed over 3,115 projects with a total budget of over €2 billion. However, according to the LIFE project database, only 42 LIFE Nature projects have implemented concrete conservation actions that were directly targeting molluscs in the EU. Table 10 shows the taxonomic breakdown of these projects. Examples of actions taken within these projects include habitat restoration, habitat conservation and action for sustaining mollusc populations. However, projects aimed at restoring natural habitat and targeting other invertebrate species might be beneficial to molluscs as well.

At the national level, the majority of the conservation actions in western Europe have been directed at six of the species listed in Annex II of the EU Habitats Directive, namely the freshwater pearl mussel *Margaritifera*

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**Box 1. Selected provisions of the EU Habitats Directive (92/43/EEC)**

Article 1(i) defines the conservation status of a species as “the sum of the influences acting on the species concerned that may affect the long-term distribution and abundance of its populations in the European territory of the Member States”. It states that a species’ conservation status will be taken as Favourable when:

- Population dynamics data on the species concerned suggests that it is maintaining itself on a long-term basis as a viable component of its natural habitats; and
- The natural range of the species is neither being reduced nor is likely to be reduced for the considerable future; and
- There is, and probably will continue to be, a sufficiently large habitat to maintain its populations on a long-term basis.

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**Table 10. The number of LIFE projects targeted towards mollusc species.** This review is based on a search for mollusc species on the LIFE database http://ec.europa.eu/environment/life/project/Projects/index.cfm. Some projects target more than one species

<table>
<thead>
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<td><em>Caseolus commixta</em></td>
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</tr>
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</tr>
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</tr>
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</tr>
<tr>
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</tr>
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<td>2</td>
</tr>
<tr>
<td><em>Vertigo moulsiana</em></td>
<td>7</td>
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</tbody>
</table>
margaritifera, Unio crassus, Vertigo moulini, Vertigo angustior, Vertigo geyeri, Vertigo genesii, with many countries establishing monitoring schemes and designating potential Special Areas of Conservation (pSAC) as required by EU legislation (Cameron et al. 2003). More recently efforts have been extended to Anisus vorticulus, however the designation of SACs is still lagging behind for this species. However, as Moorkens (pers. comm. 2011) notes, many countries have not reported a favourable conservation status for 4 of the 6 species, and as such these still remain listed as threatened species on the European Red List.

These projects are either directed towards an improvement of the habitat quality (removing dams and barriers, restoring gravel banks free of silt or clay, removing local sources of pollution, restoring natural riverbanks, preventing cattle entering the river, etc.) or directly towards the species (increase knowledge of the biology and life ecology, captive breeding and reintroduction of young mussels). Several are also concerned with the conservation of the host fish species, as it has proven to be the main limiting factor for the successful reproduction of some species. Finally awareness-raising campaigns are also conducted locally.

5.4 Extinction risk versus conservation status

The IUCN Red List Criteria classify species solely on the basis of their relative extinction risk (IUCN 2001). However, Unfavourable Conservation Status according to the EU Habitats Directive has a much broader definition. This is identified clearly in Article 1 of the Directive (see Box 1). No species meeting the IUCN Red List Criteria for one of the threatened categories at a regional level can be considered to have a Favourable Conservation Status in the EU. To be classified as Vulnerable (the lowest of the three IUCN threatened categories) a species must undergo a reduction in population size of at least 30% over ten years or three generations (or have a very small or small and declining population or geographic range; see the 2001 IUCN Red List Categories and Criteria version 3.1 http://www.iucnredlist.org/technical-documents/categories-and-criteria). It is difficult to claim that a species experiencing a decline of this magnitude is maintaining its population, that its range is stable, and that it remains a viable component of its habitat. Crucially, however, this does not mean that the opposite is true: species that are not threatened as defined by IUCN Red List Criteria do not necessarily have a Favourable Conservation Status (BirdLife International 2004a). Guidelines issued by the European Commission on the protection of animal species under the Habitats Directive reinforce this message that ‘the fact that a habitat or species is not threatened (i.e. not faced by any direct extinction risk) does not necessarily mean that it has a favourable conservation status’ (Anon. 2007).

The European Red List has highlighted the fact that about 11% of freshwater molluscs and 6% of the selected terrestrial molluscs have declining populations, while 83% of freshwater species and 53% of terrestrial molluscs have an unknown population trend (see Figures 12 and 22). It should however be noted that both the distribution and population size of numerous species have declined severely during the 20th century (but not in the timeframe of 10 years taken into consideration by IUCN methodology) or at a rate that does not exceed 30%, and thus does not satisfy IUCN Red List Criteria. Therefore, although many of these species would be categorized as Near Threatened or Least Concern, they could not be regarded as having Favourable Conservation Status.

5.5 Red List versus priority for conservation action

Assessment of extinction risk and setting conservation priorities are two related but different processes. Assessment of extinction risk, such as the assignment of IUCN Red List Categories, generally precedes the setting of conservation priorities. The purpose of the Red List categorization is to produce a relative estimate of the likelihood of extinction of a taxon. Setting conservation priorities, on the other hand, normally includes the assessment of extinction risk, but also takes into account other factors such as ecological, phylogenetic, historical, economical, or cultural preferences for some taxa over others, as well as the probability of success of conservation actions, availability of funds or personnel, cost-effectiveness, and legal frameworks for conservation of threatened taxa. In the context of regional risk assessments, a number of additional pieces of information are valuable for setting conservation priorities. For example, it is important to consider not only conditions within the region but also the status of the taxon from a global perspective and the proportion of the global population that occurs within the region. A decision on how these three variables, as well as other factors, are used for establishing conservation priorities is a matter for the regional authorities to determine.
5.6 Recommendations for conservation actions

At present, despite the omission of several families of terrestrial molluscs, present especially in some of the islands and in eastern Europe, and the underestimates due to the numbers of species yet to be described, the data compiled in this report cover about 2/3 of the molluscan fauna of Europe, and thus can claim to be reasonably representative of the status of European molluscs biodiversity and the threats to these species, and as such the conclusions and suggested actions would apply, even if new data is included.

Facing the possible loss of almost half of the freshwater molluscs and 20% of the terrestrial molluscs in Europe, urgent conservation action should be directed towards this under-protected group.

Legislation

Existing national and EU legislation should be fully implemented (including the EU Water Framework Directive, the EU Habitats Directive and the EU Common Agricultural Policy), and revised when appropriate to included the threatened species identified in this project, especially where cross-boundary management strategies would be beneficial for species-specific conservation actions. This should provide a suitable legislative tool to improve the status of many European molluscs.

Site conservation

The main conservation action is to protect key habitats, such as the ancient lakes in the Balkans, underground systems and regions displaying either high diversity or high threat levels. Including the threatened species identified in this project in the Annex II of the EU Habitat Directive would allow the designation of relevant special areas of conservation. This should provide a suitable legislative tool to improve the status of many European molluscs.

Water management

Water pollution and over-abstraction of water are two of the major threats to both freshwater and terrestrial molluscs. The loss and degradation of suitable habitat due to water pollution (nitrates and other chemicals from agricultural sources and poor domestic sewage management) and over-abstraction of water from springs and groundwater sources is particularly evident in some of the most diverse and threatened areas, such as the Iberian Peninsula and the Balkans. Better knowledge on presence of spring-snails and communication on how to improve water off-take from sites without impacting species is needed. Urgent attention also needs to be placed on implementation of the various EU directives either currently in place, or planned to improve water quality. These include:

- Over 270 species of freshwater molluscs, are restricted to groundwaters and will benefit from the implementation of the EU Groundwater Directive requiring prevention/limiting input of pollutants by 2015 and compliance with good chemical status.
- Over 244 species will benefit from implementation of the Waste Framework Directive (2006/12/EC) which requires waste to be recovered or disposed of without endangering the environment and groundwater. There are several important cave sites, with high biodiversity value lying immediately below (or closely adjacent) to waste disposal site, with the highest threats to their survival being contamination of groundwater through seepage from waste disposal sites. Similarly in Europe, in the non EU 27 countries, this is a higher threat, and effective management of seepage from waste sites must be controlled to minimise the impact on these species and their habitats.
- The Water Framework Directive has put forward a challenging legislative framework, establishing “good status” environmental objectives for all waters – surface, coastal, transitional, and ground waters – to be achieved by the end of 2015. This legislation should benefit all 854 freshwater mollusc species in Europe.

Dam/drainage projects should be engineered in such a way that they mitigate their impact on the native mollusc species. The protection of freshwater biodiversity is one of the ultimate conservation challenges as one needs to incorporate the influences of the upstream drainage network, the surrounding land to springs, rivers and

ancient forest faunas, marshlands, limestone pavement, ancient lakes and large rivers.
Species management
Species/Habitat Action Plans should be drawn for the most threatened species and land management policies should be improved to include specific guidance on the management of habitat for molluscs in order to take into consideration their specific requirements.

Captive breeding programmes (and sometimes farming) should also be set up when relevant to ensure the continuing presence of viable populations of highly threatened species (e.g. to restock rivers with freshwater bivalves or strengthen terrestrial snail populations targeted for human consumption, such as *Iberus gualtieranus*).

Raising awareness
Governments and local communities only rarely appreciate the role, and the value of mollusc biodiversity and the ecosystem services they provide. Even though a major requirement to facilitate the provision of this information is met through the delivery of this report, a communication strategy is required to raise awareness and facilitate monitoring of local populations of gastropods and bivalves. This could be met through collaboration between local wildlife associations with the expertise to monitor species combining with energy and water departments as well as relevant governments that require the habitats to be monitored in order to report on the impact of their activities.

Monitoring of species or habitats
Except for the species monitoring requirements under the EU Habitats Directive, monitoring programmes for molluscs only exist in a small number of European countries. Programmes need to be established for threatened and Data Deficient species in all countries in order to determine actual population size, distribution and trends. They may be best implemented through regular habitat monitoring (as a proxy for species status) and occasional species surveys, in order to assist in the management plans for the threatened species. Such monitoring programmes would also help evaluate the impact of conservation measures on this important indicator group of invertebrates and improve the accuracy of red listing in future years. Within the groundwater habitats, it is more difficult to adequately sample their contained fauna, so monitoring levels of pollution as well as outflow points during storm events could provide suitable information on the likely population status.

Taxonomy research
Due to the small scaled habitats present in Europe, European molluscs show a considerable number of geographical subspecies. In these rather immobile animals, even small geographic features like a mountain ridge can genetically separate populations for a time span long enough to start speciation. Often they turn out to represent cryptic species (i.e. species that are biologically distinct, but that have very similar, if not identical, morphology). The exact number of valid species might increase considerably once adequate research is carried out for all the groups and the regions in Europe.

Furthermore, in the past, missing scientific concepts lead to description of a plethora of valid scientific species names, as each small morphological deviation from the “typical” specimen was considered a new species, and after 250 years of scientific malacology we still face several million names representing only a hundred thousand biological species, at least. Evaluation of these names, whether they represent an existing biological unit or fall into the concept of an already existing one (and thus are a synonym), is an extremely important and responsible step in this cathartic process. Still, there are groups in Europe (particularly in terrestrial molluscs), where revisions are pending, and where their polytypic structure remains insufficiently clarified.
which also hinders an assessment of the species itself. So it is one of the major tasks of recent research on molluscs to come to a reasonable, hypothesis-driven phylogenetic classification of the group. For nature conservation, poorly defined species limits, can be a major problem, as if species limits are not clear, then a conservation assessment cannot be done, and a species (and even entire groups of species) may be at risk of extinction without us being aware of this.

The genus Bythinella, comprising numerous freshwater snail species, such as this transparent species, is a typical example of group where the taxonomy can only be unravelled by an integrative approach combining morphology, anatomy, biogeography, and genetics. Photo © Vincent Prié / Caracol.
6. Conclusions

6.1 Overview and recommendations for conservation measures

With almost half (44%) of all species assessed as threatened with extinction, European freshwater molluscs are by far the most threatened group assessed to date in Europe, highlighting the worrying situation of European freshwater ecosystems. Furthermore, one out of five species (20%) of the assessed terrestrial molluscs are also confronted with a high level of threat. In some cases, the point of no return has been reached: at least eight species are already Extinct and an additional 35 are Critically Endangered, Possibly Extinct.

More than 90% of the European molluscs are endemic, which means that they don’t occur anywhere else in the world and represent Europe’s natural heritage. The highest diversity, endemism and threat level are found in the Mediterranean, from the Iberian Peninsula to the Balkans and in the various island groups, highlighting the richness, but also the vulnerability of these areas. The ancient lakes in the Balkans and the Atlantic and Greek island groups deserve a special mention in that regard.

The main threat to European non-marine molluscs is the loss and degradation of suitable habitat. For the freshwater species, this is due to water pollution (nitrates and other chemicals from agricultural sources and poor domestic sewage management) and the over-abstraction of water from springs and groundwater sources, while for terrestrial molluscs, the major problems are related to agricultural improvements, encroaching urbanisation, deforestation, tourism and recreation activities.

Apart from their value as Europe’s natural heritage, non-marine molluscs provide important ecosystems services that are often underestimated, such as nutrient recycling, water cleaning, food sources, environmental indicators, etc.

To revert their dramatic situation, urgent conservation measures are needed:

- National and European legislation (including the EU Habitat Directive, the EU Water Framework directive and the EU Common Agricultural Policy) should be fully implemented and revised to include the threatened species identified during this project, especially where cross-boundary management strategies would be beneficial for species-specific conservation actions.
- Key sites, such as the ancient lakes in the Balkans, underground systems and areas of high threatened diversity should be protected and the management of these habitats and of existing protected areas should take into consideration the specific requirement of molluscs.
- Water management should be improved, especially regarding the over-exploitation of springs and groundwater and the pollution resulting from agriculture and urbanization.
- Environmental Impact Assessments (EIA) should be conducted for any dam/drainage projects to assess the impact and mitigation measures needed for native mollusc species.
- Species/Habitat Action Plans should be drawn for the most threatened species, and for the most threatened ones captive breeding programmes might need to be set in place.
- Invasive species should be controlled to reduce their impact on the native fauna.
- The importance and role of molluscs, and of invertebrates in general, should be promoted through awareness raising campaign.
- Monitoring of the population size, distribution and trend (possibly through the monitoring of the habitat as a proxy) should be undertaken for the threatened and Data Deficient species
- Further taxonomic research is needed to clarify the exact taxonomic status of the European molluscan fauna

6.2 Application of project outputs

This Red List of Non-marine Molluscs is part of a wider project aimed at comprehensively assessing several taxonomic groups (mammals, amphibians, reptiles, freshwater fishes, dragonflies), and selected butterflies, beetles and plants. It has gathered large amounts of data on the population, ecology, habitats, threats and recommended conservation measures for each species assessed. These data are freely available on the European Commission website (http://ec.europa.eu/environment/nature/conservation/species/redlist), on the IUCN Red
List website (www.iucnredlist.org), and through paper publications (see the list of European Red List published at the end of this report).

In conjunction with the data on European birds published by BirdLife International (BirdLife International 2004a, b), it provides key resources for decision-makers, policy-makers, resources managers, environmental planners and NGOs. This Red List is a dynamic tool that will evolve with time, as species are reassessed according to new information or situations. It is aimed at stimulating and supporting research, monitoring and conservation action at local, regional and international levels, especially for threatened, Near Threatened and Data Deficient species. The outputs of this project can be applied to inform policy, to identify priority sites and species to include in research and monitoring programmes and to identify internationally important areas for biodiversity. It also contributes to broaden the coverage of invertebrates on the global IUCN Red List, thanks to the assessment of endemic European molluscs.

6.3 Future work

Through the process of gathering and compiling mollusc data across Europe, several knowledge gaps have been identified. There are in particular significant geographical and taxonomical biases in the quality and quantity of data available on the distribution and status of species.

Additional resources should be provided to complete the assessment of the remaining terrestrial mollusc families. Especially as some of these families that still need to be assessed (e.g. Clausillidae, Oxychilidae, Zonitidae) have large numbers of endemic species in the Atlantic Islands and Eastern Europe, which are two of the areas displaying the highest level of pressures, indicating that the real level of threat to the European terrestrial molluscs might be higher than stated in this report. This would allow a complete overview of all terrestrial and freshwater molluscs in Europe.

In addition, if the molluscs’ assessments are periodically updated, it will enable the changing status of these species to be tracked through time allowing the production of a Red List Index (Butchart et al. 2004, 2005, 2006, 2007). To date, this indicator has been produced for birds, mammals, amphibians and reptiles at the European regional level and was adopted as one of the headline biodiversity indicators to monitor progress towards halting biodiversity loss in Europe by 2010 (European Environment Agency 2007). By regularly updating the data presented here we will be able to track the changing fate of European non-marine molluscs to 2020.

*Arianta arbustorum*, is commonly known as the Copse Snail and is one of the most widespread species in central Europe. As its name suggests, it is mainly found in woodland. It also favours rich, fenny, unimproved pasture, scrub, woods and rocks in limestone or chalk areas. It lives from the lowlands up to beyond the tree limit in the Alps above 2,000 m asl. Its population is currently stable on mainland Europe but is fragmented and declining in Ireland. There are no major threats to this species and it easily re-colonises disturbed habitats, therefore it is considered Least Concern. ©Mikael Miettinen
References


biodiversity. Gland, Switzerland and Cambridge, UK, IUCN.


Appendix 1. Red List status of European freshwater Molluscs

Due to the evolving taxonomy, the species are listed alphabetically by species name and not by genus name. Threatened species (either at the European or at the EU 27 level) are highlighted in colour. If the IUCN Red List Category is different at the European and at the EU 27 level, the highest category has been highlighted.

Key: black = Extinct (EX), red= Critically Endangered (CR) or Critically Endangered, Possibly Extinct (CR/PE), orange = Endangered (EN), yellow = Vulnerable (VU).

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<tr>
<th>Family</th>
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<th>IUCN Red List Criteria (Europe)</th>
<th>IUCN Red List Category (EU 27)</th>
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* Species were considered to be Not Applicable (NA) if they were judged to be of marginal occurrence in the region. Species were regarded as of marginal occurrence if it was estimated that less than 1% of their global range lies within Europe and if the European populations are not disjunct of the main species range.
## Appendix 2. Red List status of European terrestrial Molluscs

Due to the evolving taxonomy, the species are listed alphabetically by species name and not by genus name. Threatened species (either at the European or at the EU 27 level) are highlighted in colour. If the IUCN Red List Category is different at the European and at the EU 27 level, the highest category has been highlighted.

### Key:
- black = Extinct (EX), red= Critically Endangered (CR) or Critically Endangered, Possibly Extinct (CR/PE), orange = Endangered (EN), yellow = Vulnerable (VU).

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* Species were considered to be Not Applicable (NA) if they were judged to be of marginal occurrence in the region. Species were regarded as of marginal occurrence if it was estimated that less than 1% of their global range lies within Europe and if the European populations are not disjunct of the main species range.
Appendix 3. Bern Convention and Habitats Directive mollusc species

Molluscs listed on either Annexes II and IV of the Habitats Directive or Appendices II or III of the Bern Convention and their European Red List status. An asterisk (*) indicates that the species is a priority species for the Habitats Directive.

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<td>II</td>
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</table>
Appendix 4. Methodology for spatial analyses

1. Freshwater molluscs

Data were analysed at the hydroshed level. River basins were selected as the spatial unit for mapping and analysing freshwater species distributions as it is generally accepted that the river/lake basin or catchment is the most appropriate management unit for inland waters. Species distributions have been mapped to include brackish and marine ranges where appropriate, however the spatial analyses only include the inland ranges for the purposes of this report.

Patterns of species richness (Figure 5) were mapped by counting the number of extant species in each hydroshed. Patterns of threatened species richness (Figure 6) were mapped by counting the number of threatened species (categories CR, EN, VU at the European regional level) in each hydroshed. Patterns of endemic species richness were mapped by counting the number of species in each hydroshed that were flagged as being endemic to geographic Europe as defined in this project (Figure 7).

2. Terrestrial molluscs

Data were analysed using a geodesic discrete global grid system, defined on an icosahedron and projected to the sphere using the inverse Icosahedral Snyder Equal Area (ISEA) Projection (S39). This corresponds to a hexagonal grid composed of individual units (cells) that retain their shape and area (~864 km²) throughout the globe. These are more suitable for a range of ecological applications than the most commonly used rectangular grids (S40).

The range of each species was converted to the hexagonal grid for analysis purposes. Coastal cells were clipped to the coastline. Patterns of species richness (Fig. 12) were mapped by counting the number of species in each cell (or cell section, for species with a coastal distribution). Patterns of threatened species richness (Fig. 13) were mapped by counting the number of threatened species (categories CR, EN, VU at the European regional level) in each cell or cell section. Patterns of endemic species richness were mapped by counting the number of species in each cell (or cell section for coastal species) that were flagged as being endemic to geographic Europe as defined in this project (Fig. 14).
Appendix 5. Example of species summary and distribution map

The species summary gives all the information collated (for each species) during this assessment, including a distribution map. You can search for and download all the summaries and distribution maps from the European Red List website and data portal available online at http://ec.europa.eu/environment/nature/conservation/species/redlist and http://www.iucnredlist.org/europe.

Codringtonia eucineta - (Bourguignat, 1857)

Animalia - Mollusca - Gastropoda - Stylommatophora - Helicidae - Codringtonia - eucineta

Common Names: No Common Names
Synonyms: Codringtonia acaunicia (Kohlt, 1902)

Taxonomic Note:

Red List Status

VU - Vulnerable, B1ab(i,ii,iv)+2ab(i,ii,iv) (IUCN version 3.1)

Assessment Information

Reviewed? Date of Evaluation: Status: Reasons for Rejection: Improvements Needed:
True 2011-03-01 Passed - -

Assessor(s): Vardinoyannis, K. & Triantis, K.
Reviewer(s): Livingstone, S. & Neubert, E.

Assessment Rationale

The species has a restricted extent of occurrence (4,000 km²), along with a severely fragmented population and a continuous decline in the extent of occurrence, area of occupancy and the number of locations or subpopulations (inferred by Hadjicharalambous 1996). Also, it seems that there is a continuous decline of the population (Hadjicharalambous 1996). Codringtonia has a quite unusual life cycle of or land snails of southern Europe, since it reproduces in spring. This uncommon life-history pattern is in disassociation with the prevailing climatic conditions in southern Greece (Hadjicharalambous 1996). This constitutes an important extinction threat, considering the current trends of climatic conditions and the human impact on vegetation cover in the preferred habitats of the Codringtonia species (Glokas et al. 2007). This species is listed as Vulnerable (B1a, B1b (i, ii, iv), B2a, B2b(i, ii, iv).

Distribution

Geographic Range

The species is endemic to Greece, distributed in the central part of south Peloponnese and in Evrytania (central Greece) (Hadjicharalambous 1996, Stabai 2005).

Map Status

Map Status: Done

Biogeographic Realms

Biogeographic Realm: Palearctic
Occurrence

Countries of Occurrence

<table>
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<tr>
<th>Country</th>
<th>Presence</th>
<th>Origin</th>
<th>Formerly Bred</th>
<th>Seasonality</th>
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<tbody>
<tr>
<td>Greece</td>
<td>Extant</td>
<td>Native</td>
<td>-</td>
<td>Resident</td>
</tr>
<tr>
<td>Greece (mainland)</td>
<td>Extant</td>
<td>Native</td>
<td>-</td>
<td>Resident</td>
</tr>
</tbody>
</table>

Population

The populations of the species, although their size cannot be accurately estimated appear to be in serious decline (Hadjicharalambous 1996). The species is generally considered as rare.

Habitats and Ecology

Codringtonia species are found at various altitudes, living in crevices on rocky terrain within maquis and coniferous (except pines) or mixed (deciduous-coniferous) forests (Hadjicharalambous 1996).

IUCN Habitats Classification Scheme

<table>
<thead>
<tr>
<th>Habitat</th>
<th>Suitability</th>
<th>Major Importance?</th>
</tr>
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<tbody>
<tr>
<td>Forest -&gt; Forest - Temperate</td>
<td>Suitable</td>
<td>Yes</td>
</tr>
<tr>
<td>Rocky areas (eg. inland cliffs, mountain peaks)</td>
<td>Suitable</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Systems

System: Terrestrial

Use and Trade

General Use and Trade Information

This species is not used or traded.

Threats

Grazing and fire can potentially restrict the populations of the species but currently there is no evidence for any direct threats for this species. Nevertheless, Codringtonia has a quite unusual life cycle of or land stals of southern Europe, since it reproduces in spring. This uncommon life-history pattern is in disassociation with the prevailing climatic conditions in southern Greece (Hadjicharalambous 1996). This constitutes an important extinction threat, considering the current trends of climatic conditions and the human impact on vegetation cover in the preferred habitats of the Codringtonia species (Glokas et al. 2007).

Conservation

This species is listed in the Greek Red Data Book as Vulnerable (Legakis and Maraghou 2009). Although there are a number of areas included in various protection schemes, in which the species is present, there is no conservation action regarding the species.

Bibliography


Codringtonia eucinetta

range type
Native (resident)

- national boundaries
- subnational boundaries
- lakes, rivers, canals
- salt pans, intermittent rivers

data source:
Kostas Triantis

European Regional Assessment
IUCN Red List of Threatened Species™ – Regional Assessments

Europe

*The Status and Distribution of European Mammals.* Compiled by Helen J. Temple and Andrew Terry, 2007

*European Red List of Reptiles.* Compiled by Neil Cox and Helen J. Temple, 2009

*European Red List of Amphibians.* Compiled by Helen J. Temple and Neil Cox, 2009

*European Red List of Dragonflies.* Compiled by Vincent J. Kalkman, Jean-Pierre Boudot, R. Bernard, Klaus-Jürgen Conze, Geert De Knijf, Elena Dyatlova, Sonia Ferreira, Miloš Jović, Jürgen Ott, Elisa Riservato and Göran Sahlén, 2010

*European Red List of Saproxylic Beetles.* Compiled by Ana Nieto and Keith Alexander, 2010


*European Red List of Freshwater Fishes.* Jörg Freyhof and Emma Brooks, 2011


Other regions

*The Status and Distribution of Freshwater Biodiversity in Eastern Africa.* Compiled by William R.T. Darwall, Kevin G. Smith, Thomas Lowe, Jean-Christophe VieÅL, 2005

*The Status and Distribution of Freshwater Fish Endemic to the Mediterranean Basin.* Compiled by Kevin G. Smith and William R.T. Darwall, 2006


*Overview of the Cartilaginous Fishes (Chondrichthyans) in the Mediterranean Sea.* Compiled by Rachel D. Cavanagh and Claudine Gibson, 2007

*The Status and Distribution of Dragonflies of the Mediterranean Basin.* Compiled by Elisa Riservato, Jean-Pierre Boudot, Sonia Ferreira, Miloš Jović, Vincent J. Kalkman, Wolfgang Schneider, Boudjéma Samraoui and Annabelle Cuttelod, 2009

*The Status and Distribution of Mediterranean Mammals.* Compiled by Helen J. Temple and Annabelle Cuttelod, 2009


*The Status and Distribution of Freshwater Biodiversity in Western Africa.* Compiled by Kevin Smith, Mame D. Diop and Mamadou Niane, 2009

*The Status and Distribution of Freshwater Biodiversity in Northern Africa.* Compiled by Nieves García, Annabelle Cuttelod and Dania Abdul Malak, 2010


European Commission

European Red List of Non-marine Molluscs

Luxembourg: Publications Office of the European Union

2011 – viii + 60pp + 4pp cover. 210 x 297 mm

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IUCN – Global Species Programme
The IUCN Species Programme supports the activities of the IUCN Species Survival Commission and individual Specialist Groups, as well as implementing global species conservation initiatives. It is an integral part of the IUCN Secretariat and is managed from IUCN’s international headquarters in Gland, Switzerland. The Global Species Programme includes a number of technical units covering Species Trade and Use, The IUCN Red List, Freshwater Biodiversity Assessment Initiative (all located in Cambridge, UK), and the Global Biodiversity Assessment Initiative (located in Washington DC, USA). www.iucn.org/species

IUCN – Regional Office for Europe
The IUCN Regional Office for Europe (ROIE) is based in Gland (Switzerland) and has three sub-regional offices: the European Union Representative Office in Brussels (Belgium), the Programme Office for South-Eastern Europe in Belgrade (Serbia) and the Caucasus Cooperation Centre in Tbilisi (Georgia). In cooperation with more than 350 European members and other parts of the IUCN constituency, ROIE implements the IUCN European Programme. The Programme area covers 55 countries and stretches from Greenland in the west to Kamchatka in the east. www.iucn.org/europe
The European Red List is a review of the conservation status of c.6,000 European species (mammals, reptiles, amphibians, freshwater fishes, butterflies, dragonflies, and selected groups of beetles, molluscs, and vascular plants) according to IUCN regional Red Listing guidelines. It identifies those species that are threatened with extinction at the regional level – in order that appropriate conservation action can be taken to improve their status.

This publication summarises results for all of Europe's native freshwater species of mollusc and for a selection of terrestrial mollusc families. About 44% of the freshwater molluscs and 20% of the selected terrestrial molluscs are threatened with extinction at the European level as a result of threats including pollution, dams and water extraction (mainly for agriculture and drinking purposes) for the freshwater ecosystems and urbanisation, agriculture and recreational activities for the terrestrial molluscs.

The European Red List was compiled by IUCN's Species Programme, the IUCN Regional Office for Europe and the Natural History Museum of Bern (Switzerland) and is the product of a service contract with the European Commission. It is available online at http://ec.europa.eu/environment/nature/conservation/species/redlist and http://www.iucnredlist.org/europe.