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Monotomidae, Nitidulidae, Tenebrionidae and Zopheridae)**

Fabien Soldati, Thomas Barnouin, Cyrille van Meer, Raphaëlle Mouttet, Alexis Vincent, Sylvain Bonifait, Sandy Barbéris, Etienne Sébastien

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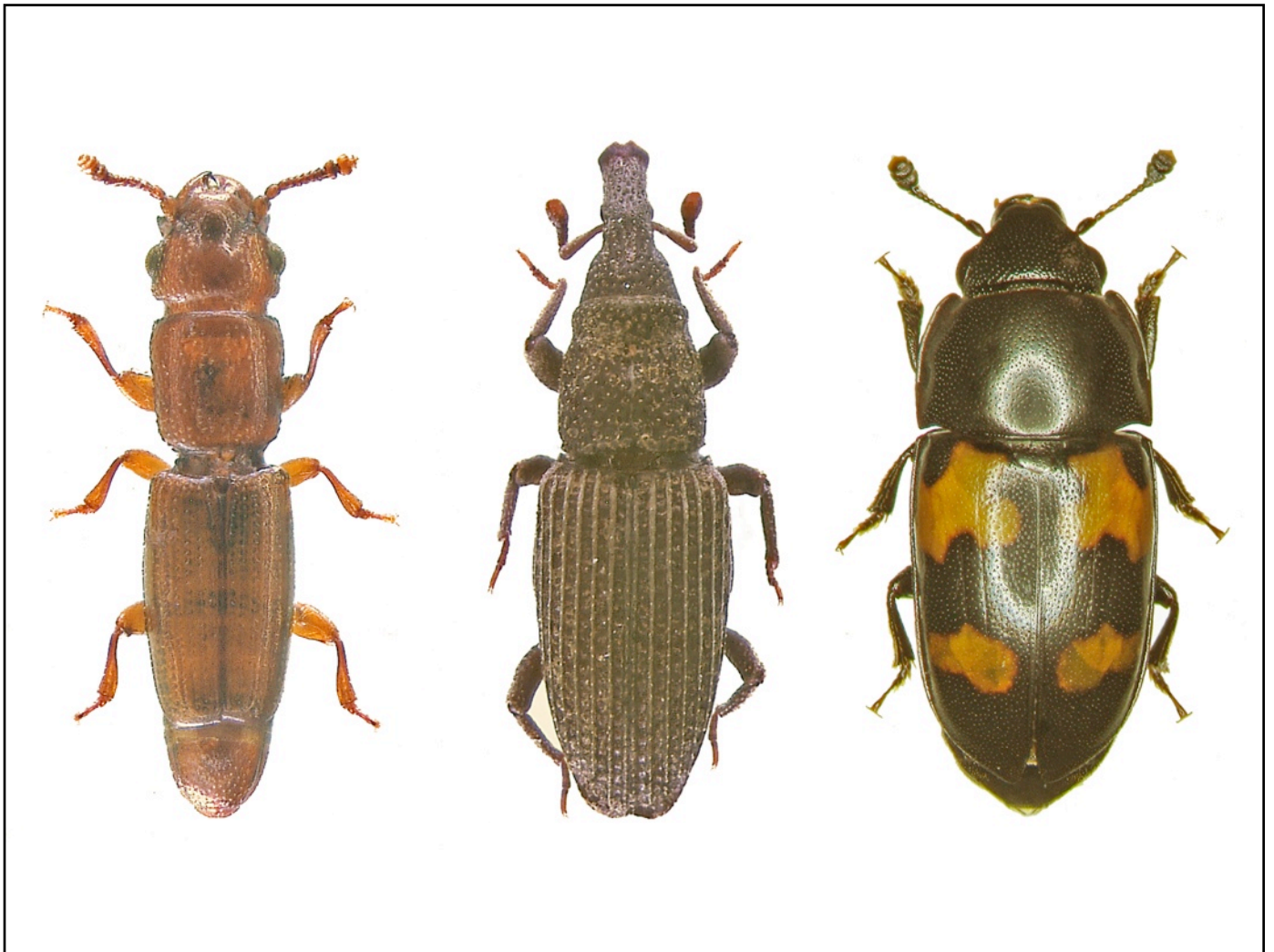
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First or new records of non-native beetles in France (Coleoptera: Bostrichidae, Carabidae, Dryophthoridae, Monotomidae, Nitidulidae, Tenebrionidae and Zopheridae)

FABIEN SOLDATI (1, 7, *), THOMAS BARNOUIN (1, 8), CYRILLE VAN MEER (2), RAPHAËLLE MOUTTET (3), ALEXIS VINCENT (1, 9), SYLVAIN BONIFAIT (4), SANDY BARBÉRIS (5) & SÉBASTIEN ÉTIENNE (6)

(1) Office national des forêts (ONF), Laboratoire national d'entomologie forestière, 2 rue Charles Péguy, 11500 Quillan, France - labo.entomo@onf.fr

(2) 94 chemin Ahantzenborda, 64310 Saint-Pée-sur-Nivelle, France - cyrille.van-meer@wanadoo.fr - <https://zoobank.org/550CD585-B764-4DD7-A6FF-3D149DFB865F>

(3) ANSES, Laboratoire de la Santé des Végétaux, 755 avenue du Campus Agropolis, CS 30016, 34988 Montferrier-sur-Lez cedex, France. - raphaelle.mouttet@anses.fr - <https://zoobank.org/26CBD892-3A2E-4772-93CF-573A8C6761E2>

(4) Apt 8, 10 rue de Civrac, 33980 Audenge, France - sylvain_bonifait@yahoo.fr - <https://zoobank.org/3AF9B0BB-4568-48F8-8022-0CF6C72C35D0>

(5) 2 rue des Paludiers, 33980 Audenge, France - san_nloup@yahoo.fr - <https://zoobank.org/9302D70A-BC95-4DC9-8936-6E94E53A45B9>

(6) Réseau Entomologie de l'ONF, 19 route de Coutances, 50180 Agneaux, France - sebastien.etienne@onf.fr - <https://zoobank.org/08C51654-DB02-4EC1-A723-7762E9611501>

(7) - <https://orcid.org/0000-0001-9697-3787> - <https://zoobank.org/A4EEDE9A-1099-4A21-984D-CF16105BEDD7>

(8) - <https://orcid.org/0000-0002-1194-3667> - <https://zoobank.org/46BA2B14-15BA-4C37-A815-09BE7B7D5221>

(9) - <https://zoobank.org/24609493-6E6B-456F-AFA5-262B6F7A13AA>

* Corresponding author

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Zopheridae;
alien species;
first reports;
new interceptions;
Europe;
France;
Corsica.

Abstract. – A detailed presentation of eight non-native beetle species for mainland France is made, including new interceptions or first records in this country. *Dryophthorus americanus* (Bedel, 1885) (Dryophthoridae), *Glischrochilus fasciatus* (A. G. Olivier, 1790) (Nitidulidae), *Neoisocerus ferrugineus* (Fabricius, 1798) (Tenebrionidae), *Stenolophus (Egadroma) quinquepustulatus* (Wiedemann, 1823) (Carabidae), *Xyloperthodes nitidipennis* (Murray, 1867) (Bostrichidae), as well as an undetermined species belonging to the genus *Europs* (Monotomidae), are reported for the first time in France. *D. americanus*, *S. quinquepustulatus* and *Europs* sp. were also observed for the first time on the European continent. Photographs of specimens of all these species coming from France are presented, and an illustrated key is provided to separate the American species *Dryophthorus americanus* (Bedel, 1885) from its European counterpart *D. corticalis* (Paykull, 1792).

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Introduction

Biological invasions are considered among the main threats to biodiversity and causing many negative impacts on forest and agro-ecosystems (Pimentel et al., 2005; Kenis & Branco 2010). For example, Ichter et al. (2024) estimate that all invasive alien species (EIE) currently represent in France 12% of proven threats to ecosystems, behind changes to natural environments (44%) and pollution (22%) or urbanization (20%). However, their relative ranking of biodiversity threats depends on local context and metrics used (Bellard et al., 2022).

Correlated with the rise of international trade, the number of alien insects tend to increase exponentially in the world since 1950 (Seebens et al., 2017). Amongst European countries, France has one

of the highest numbers of intercepted, adventive or established non-native Coleoptera (Beneen & Roques, 2010; Barnouin et al., 2020; Cocquempot & Lindelöw, 2010; Denux & Zagatti 2010; Kirkendall & Faccoli, 2010; Rassati et al., 2016; Roy & Migeon, 2010; Sauvard et al., 2010). For 15 years, many first records of non-native beetle species were reported in France (e.g. Allemand, 2009; Alonso & Levebvre, 2022; Barnouin et al., 2021; Baumgart & Callot, 2010; Chapelin-Viscardi et al., 2018; Chapin et al., 2016; Cocquempot et al., 2019; Cocquempot & Gattus, 2013; Ferrand, 2016; Fritzsche & Delobel, 2012; Gay, 2023; Haran et al., 2019; Huchet & Labatut, 2022; Jelínek et al., 2016; Koken et al., 2022; Lagarde & Noblecourt, 2018; Lemaire & Raffaldi, 2014; Lessieur, 2021; Martin & Leraut, 2019; Maudet & Cherpitel, 2019; Mouttet et al., 2016, 2017, 2020; Nageleisen et al., 2015; Saurat et al., 2023; Secq & Secq, 2017, 2018; Soldati et al., 2018, 2019; Thieren et al., 2014; Van Meer & Artéro, 2022; Van Meer

Reviewers :

Henri-Pierre Aberlenc (CIRAD-CBGP, Montferrier-sur-Lez, France) - <https://zoobank.org/9FB464AB-8246-4F7E-B16D-2DC578BAE551>

Alain Roques (INRAE-URZF, Orléans, France) - <https://orcid.org/0000-0002-3734-3918> - <https://zoobank.org/9B88E8F8-6E26-4DBD-952E-6E29AFF7C5A>



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& Cocquemot, 2013). Additionally, some main works on the whole alien Coleoptera (Aberlenc et al., 2024), ambrosia and bark beetles (Barnouin et al., 2020), Bostrichidae (Brustel & Aberlenc, 2014) and Tenebrionidae (Soldati & Soldati, 2014) were published.

In the perspective of an increasingly globalized world in which goods and people move at an ever-increasing speed, maintaining a high level of attention towards non-native and invasive species is fundamental (Ruzzier et al., 2023). The high number of alien species reports in France over the past 15 years has led to the strengthening of surveillance of international port and airport areas, the main points-of-entry, as well as to the deployment of a specific monitoring program for the survey of these new invaders (Daubrée, 2016; Fan et al., 2019; Roques & Auger-Rozenberg, 2023).

The aim of this work is to share faunistic data and to deal with eight France non-native beetles, including new interceptions or first reports in France or Europe.

Material & methods

Sampling methods

Data on the species come from different projects or field research. The main project, followed since 2014, is intended to test traps baited with generic lures consisting of a multipheromone blend of cerambycids implemented with plant volatiles (ethanol and α -pinene) for the early detection of new introductions of exotic xylophagous insects within the French port and airport areas (Fan et al. 2019; Roques & Auger-Rozenberg, 2023; Roques et al., 2023) and concern four species in this work. Another species was captured with Crosstrap® traps baited with Galloprotect pack® as part of the national Pinewood Nematode monitoring plan (Benistand-Hector et al., 2020). Two species were captured in part by Polytrap™ windows traps baited with 20 % ethanol.

Finally, six species were totally or partly captured by hand collecting (under pieces of wood, in packaging, under bark, in sawdust, in bark beetle galleries, etc.).

Examined collections and specimen depositories

All specimens belonging to the species treated in this work are deposited in the institutional or private collections below. For each species, data are arranged by French department order and presented as follows: municipality, location, geolocation (if available), date of observation (day, month in Roman numerals, year), collecting method, number of collected individuals and collectors. The acronyms of the collections where the specimens were deposited are indicated in brackets. That said, due to the large number of data and the variability of collecting methods for the not yet identified *Europs* species, this formalism has not been fully respected for this taxon but rather formalized in the remarks.

ANSES, Laboratoire de la Santé des Végétaux (Montferrier-sur-Lez, France) (ANSES)

ONF, Laboratoire national d'entomologie forestière (Quillan, France) (LNEF-ONF)

Coll. Cyrille Van Meer (Saint-Pée-sur-Nivelle, France) (CVM)

Coll. Fabien Soldati (Limoux, France) (FS)

Coll. Sébastien Etienne (Sainte-Marguerite-d'Elle, France) (SE)

Preparation of specimens and illustrations

The photographed specimens were prepared as much as possible with particular care, immersed in a solution containing 95% water and 5% detergent (e.g. dishwashing detergent) for several hours then cleaned with a fine brush and rinsed thoroughly with water. The photographs of species whose size is less than 5 mm, or of morphological details, were taken on the technical image acquisition

platform of the ONF National Forest entomology laboratory (LNEF-ONF) with the Entovision multifocus system. The construction of clear images from multifocal stacks (focus stacking) was carried out with the Cartograph software from Microvision instruments (Evry, France). Specimens with a total length greater than or equal to 5 mm were taken with a Sony DSC-W7 digital camera mounted on a Wild M5 stereomicroscope and the focal planes were assembled with Combine ZP software (www.hadleyweb.pwp.blueyonder.co.uk). The infographic work was carried out with Adobe Photoshop CC 2018 software.

Results

Bitoma siccana (Pascoe, 1863) (Zopheridae)

(Fig. 1A)

France

– **Corsica**, Bastia, in the harbour, 42.70509°, 9.454747°, 02.X.2023, Lindgren funnel trap baited with a multipheromone blend of cerambycids implemented with plant volatiles, 1 ex., INRAE-URZF leg. (LNEF-ONF).

– **Calvados**, Blainville-sur-Orne, 18.IV.2024, 4 ex., Iroko log from the Democratic Republic of Congo, FREDON Normandie leg. (ANSES). There are the third and fourth reports in France and only the second in Corsica, where the species is perhaps naturalized, having been collected in 2023 in the fungus *Inonotus dryadeus* in a cork grove in Zonza, Sainte-Lucie-de-Porto-Vecchio (Vincent et al., 2023) and having also been found in southern Sardinia under the bark of *Eucalyptus camaldulensis* (Cillo & Bazzato, 2011).

Status in France. – Possibly established in Corsica; only intercepted in mainland France.

Geographical distribution. – Native to the tropical areas of the Old World, this species occupies a large part of Asia and the Oriental, Australian and Afrotropical regions. It is also reported from Algeria, Egypt, and Yemen, and has even been introduced to the United States, Central America and some Caribbean islands (Dajoz, 1977; Mifsud et al., 2020; Schuh, 2020). Hence, we can now consider it as a cosmopolitan. In Europe, it was only known from the ports of Venice (Italy) and La Rochelle (France), Corsica, Sardinia and Malta, as well as the extreme south of Spain, between Almería and Málaga (Mifsud et al., 2020; Vincent et al., 2023).

Remarks. – The species is found under the bark of dead trees and in fungi where it would be predatory. It does not present any economic risks but a competition with native saproxylophagous relatives may occur.

Dryophthorus americanus (Bedel, 1885) (Dryophthoridae)

(Fig. 2A, C, E)

France

– **Gironde**, Biganos, 44.63052°, -0.97618°, 28.VI.2023, Lindgren funnel trap baited with a multipheromone blend of cerambycids implemented with plant volatiles, 2 ex., INRAE-URZF leg. (LNEF-ONF). La Teste-de-Buch, state forest, 44.50538°, -1.20122°, 13.VI.2023, Polytrap™ baited with ethanol, 1 ex., LNEF-ONF (LNEF-ONF).

– **Pyrénées-Atlantiques**, Pontacq, 43.20157°, -0.08097°, 22.VI.2023, Crosstrap® baited with Galloprotect pack®, 2 ex., DSF leg. (LNEF-ONF). New country record for France and first report in Europe.

Status in France. – Possibly established.

Geographical distribution. – The only representative of the genus in North America, particularly common in dead pine wood, widely distributed in the United States (O'Brian, 1997),

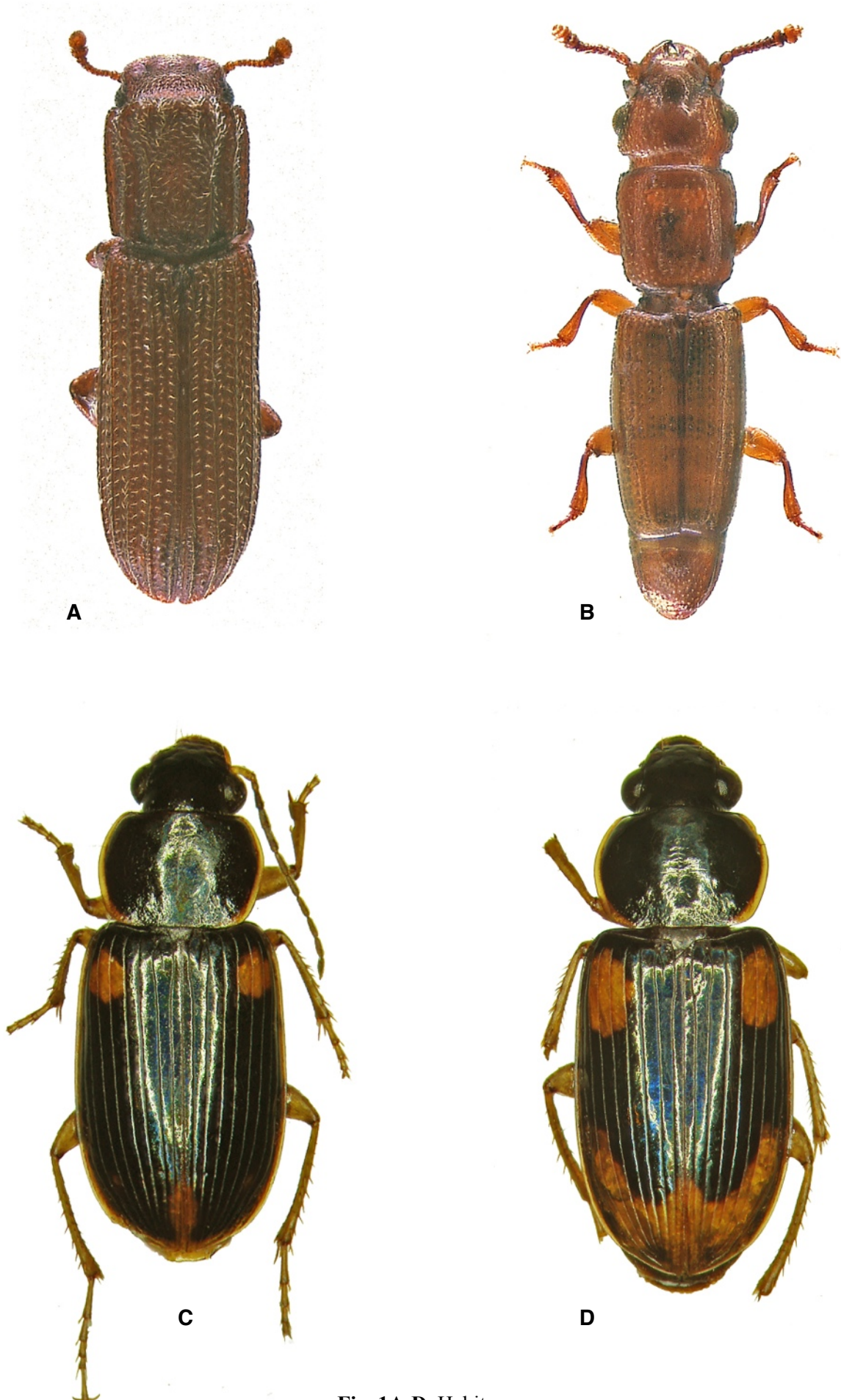


Fig. 1A-D. Habitus.

A. *Bitoma siccana* (Pascoe, 1863) (2.7 mm). B. *Europs* sp. (2.7 mm). C-D. *Stenolophus (Egadroma) quinquepustulatus* (Wiedemann, 1823) (5.6 and 6.3 mm).

mainly in the eastern part (GBIF, 2024a). Not reported in Europe and the whole Palearctic region (Lyal, 2011).

Remarks. – Adults are found under the bark of old decayed trunks or in forest litter (Anderson, 2002). This species, as well as a fairly wide range of other saproxylic beetles, could very occasionally carry the pathogenic fungus *Geosmithia morbida*, cause of thousand cankers disease on Black Walnut (Moore et al., 2019). However, according to these latter authors, only *Pityophthorus juglandis* Blackman, 1928 (Coleoptera, Scolytinae) is currently able of inoculating the disease. Further investigations must be carried out to prove that other potentially carrier species can really play the role of vectors. Consequently, *D. americanus* does not normally present any economic risk. However, a competition with native saproxylophagous relatives may occur, in particular with its Palearctic vicariant *D. corticalis* (Paykull, 1792), with which it was collected in the forest of La Teste.

We can easily separate *Dryophthorus americanus* from the European species *D. corticalis* with the following key:

- 1(2) Larger on average (3.4-4.1 mm); elytra quite elongated, widened at the base but moderately narrowed posteriorly, mucronate at the apex, the mucro having a clearly raised lateral edge (Fig. 2B, F); suture and 3rd interstria no more prominent on the elytral declivity than other interstriae, apex of elytra concave (Fig. 2F); fine, sharp interstriae on the disc, clearly narrower than striae (Fig. 2B, D) *corticalis*
- 2(1) Smaller on average (3.0-3.7 mm); elytra quite short, strongly enlarged at the base and quite abruptly narrowed posteriorly, without any mucro and without clearly raised lateral edge at the apex (Fig. 2A, E); suture and 3rd interstria very prominent on the elytral declivity, costiform, apex of elytra convex (Fig. 2E); interstriae wider and flattened on the disc, barely narrower than striae (Fig. 2A, C) *americanus*

Europs sp. (Monotomidae)
(Fig. 1B)

France

– **Pyrénées-Atlantiques**, Saint-Jean-de-Luz, quartier Kechilooa, 43.40325°, -1.63863°, 01.VI.2020, 4 ex., C. Van Meer. *Idem*, 21.VIII.2020, 1 ex., C. Van Meer. *Idem*, 01.VII.2021, 1 ex., C. Van Meer. *Idem*, 08.VII.2021, 1 ex., C. Van Meer. *Idem*, 30.VII.2021, 3 ex., C. Van Meer. *Idem*, 10.IX.2021, 1 ex., C. Van Meer. *Idem*, 06.V.2023, 1 ex., C. Van Meer. *Idem*, 9.V.2023, 8 ex., C. Van Meer. *Idem*, 16.V.2023, 4 ex., C. Van Meer. *Idem*, 31.V.2023, 8 ex., C. Van Meer. *Idem*, 7.VI.2023, 1 ex., C. Van Meer. *Idem*, 14.VI.2023, 5 ex., C. Van Meer. *Idem*, 01.VII.2023, 1 ex., C. Van Meer. *Idem*, 14.VII.2023, 2 ex., C. Van Meer. *Idem*, 21.VII.2023, 1 ex., C. Van Meer. *Idem*, 16.VIII.2023, 9 ex., C. Van Meer. *Idem*, 25.VIII.2023, 5 ex., C. Van Meer. *Idem*, 16.IX.2023, 3 ex., C. Van Meer. *Idem*, 27.IX.2023, 4 ex., C. Van Meer. *Idem*, 31.I.2024, 2 ex., C. Van Meer. *Idem*, 05.IV.2024, 2 ex., C. Van Meer. *Idem*, 10.IV.2024, 40 ex., C. Van Meer. Most of the specimens (CVM), other specimens (LNEF-ONF). The genus *Europs* Wollaston, 1854 is new for France and for the European continent, despite its name.

Status in France. – Established.

Geographical distribution. – About 50 species of *Europs* exist in the world (V. Alekseev, pers. comm.) including 32 in the New World (MonotomidGen, 2024) and only 6 species in the very large Palearctic region, with an enigmatic distribution: Canary Islands and Madeira (2), India (2), Far East and Japan (2) (Jelinek, 2007). Most live in the tropics. As we do not yet

know the identity of the species reported in France, we cannot detail its geographical distribution.

Remarks. – All these observations took place from June 1, 2020, to April 10, 2024, i.e. over almost 4 years, totaling 107 individuals observed. Most were caught with PolytrapTM interception traps baited with ethanol, but 15 ex. were found by hand collecting, under *Hibiscus* bark, in the sawdust of maple stumps (*Acer* sp.), in ivy (*Hedera helix*) and under the bark of *Laurus nobilis*. They were found in association with or inside the galleries of the following main bark beetles: *Xyleborus saxesenii* (Ratzeburg, 1837), *Xylosandrus germanus* (Blandford, 1894), *Hypothenemus eruditus* Westwood, 1836 and *Kissophagus vicinus* (Comolli, 1837). Also, we can consider this species as naturalized in France and it is perhaps a commensal cleaner or a predator of bark beetle eggs, larvae, and pupae. Adults of this species are mainly active between April and September. Note in the area the proximity of a botanical garden, as well as properties or small areas in a natural state where many exotic plant species from the Americas and Asia have been introduced, favored by the mild and very humid climate on the Basque Coast. The presence of a harbour in Bayonne, an airport in Biarritz, the highway linking France to Spain and Portugal, a high-speed rail line and large garden centers also provide access to facilitate new arrivals and the installation of numerous exotic beetles (Soldati et al., 2024).

Ecology of *Europs* is poorly known. While most have been observed under the bark of the trees, many species are associated with flowers and can be important pollinators in tropical areas (MonotomidGen, 2024; Morales et al., 2020).

Identification of *Europs* is not easy, often relying on old, short original descriptions lacking illustrations because the genus has never been fully revised (Bousquet, 2003). The species now established in France does not correspond to the less far to Europe relatives, from the Canary Islands and Madeira (Palm, 1975). Moreover, it does not correspond to a North American (Bousquet, 2003) or Korean species (Lee et al., 2020) either. Thus, it cannot be ruled out that this species, probably of tropical origin, could be new to science. From photos initially sent to world-renowned specialists, the identification could not go further than the genus level (V. Alekseev & T. McElrath, pers. comm.).

Glischrochilus fasciatus (A. G. Olivier, 1790) (Nitidulidae)
(Fig. 3C)

France

– **Seine-Maritime**, Le Havre, 17.V.2024, on wood of *Juglans nigra* imported from Canada, 3 ex., PEC76 leg. (ANSES, LNEF-ONF). First report of this species in France.

Status in France. – Only intercepted.

Geographical distribution. – Widely distributed in the United States, mainly in the eastern part (GBIF, 2024b), from Maine south to Florida, west through Missouri, Kansas, Iowa to Oregon, and in New Mexico (Majka et al., 2008). Also, in Canada, reported from British Columbia, Manitoba, Ontario, Quebec, New Brunswick, Nova Scotia, and Prince Edward Island (Reed et al., 2023). Introduced in Europe since 1992 in Austria, Finland, Germany, Slovenia, and Switzerland (Jelinek et al., 2016), it does not yet appear to have been established.

Remarks. – This species is common on fungi, flowers, decaying or ripe fruits (Downie & Arnett, 1996) and is associated with oak wilt fungus mats (Cease & Juzwik, 2001). Price & Young (2006) found it associated with oak (*Quercus*), poplar (*Populus*), and butternut (*Juglans cinerea*).

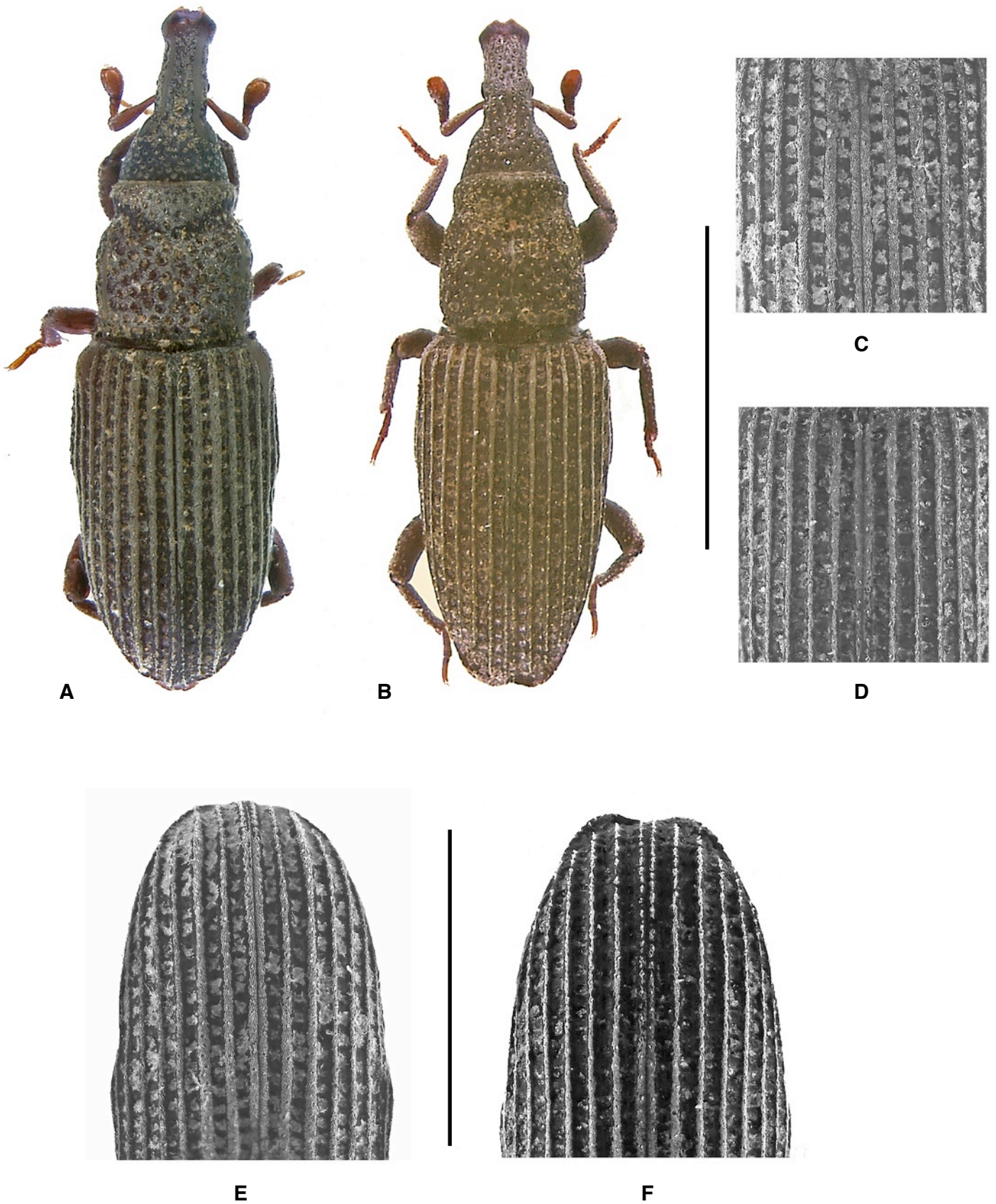


Fig. 2A-F. *Dryophthorus* spp.

A-B. Habitus. **A.** *Dryophthorus americanus* (Bedel, 1885) (3.1 mm). **B.** *D. corticalis* (Paykull, 1792) (3.6 mm). **C-D.** Disc of elytra, detail. **C.** *D. americanus*. **D.** *D. corticalis*. **E-F.** Back of elytra. **E.** *D. americanus*. **F.** *D. corticalis*. Scale bars: 1.0 mm.

Neoisocerus ferrugineus (Fabricius, 1798)
(= *purpurascens* Herbst, 1799) (Tenebrionidae)
(Fig. 3D)

France

– **Gironde**, Lacanau, Lacanau-Océan, 45.00703°, -1.20114°, 22.VI.2023, under a piece of wood in coastal dunes, 1 ex., Sylvain Bonifait leg. (FS). First report of this species in France.

Status in France. – Only intercepted.

Geographical distribution. – Atlantic coastline of Spain and Portugal, from the strait of Gibraltar to Galicia (Español, 1956; Novoa et al., 2009) and Mediterranean coastline of Morocco, between Tangier and Melilla (Kocher, 1958).

Remarks. – The single individual was found dead under a piece of wood, in coastal dunes managed by protection and cleaning interventions, in a habitat which coincides with that of this strictly psammo-halophilous species. Indeed, it is mainly found on the first dunes and the tops of the beaches, and not behind the dunes (Leo & Fancello, 2019). One of the authors (FS) also observed it several times, at night, in the coastal dunes with *Ammophila arenaria* of southern Portugal, moving on the sand in search of plant remnants on which it feeds. The individual observed at Lacanau is either the result of an accidental introduction, e.g. by tourists, of which there are many in this seaside resort, by horticultural or ecological engineering plantations, or a shipwreck coming from Galicia, for example, and transported by sea currents. It would be interesting to check in the future whether this species could not settle locally on a portion of the Gironde coastline.

Sinoxylon unidentatum (Fabricius, 1801) (Bostrichidae)
(Fig. 3A)

France

– **Bouches-du-Rhône**, Marseille, 15.XII.2014, on wood packaging material imported from Indonesia, 6 ex., PEC13 leg. (ANSES). *Idem*, 28.IX.2015, on wood packaging material imported from Vietnam, 1 ex., PEC13 leg. (ANSES). *Idem*, 28.X.2021, on wood packaging material imported from India, 9 ex., PEC13 leg. (ANSES). *Idem*, 18.IX.2023, on wood packaging material imported from India, 3 ex., PEC13 leg. (ANSES).

– **Oise**, Clermont, 09.VII.2020, on wood packaging material from Asia, 2 ex., SRAL Hauts-de-France leg. (ANSES).

– **Seine-Maritime**, Le Havre, in the harbour, N 49.48070°, E 0.14384°, 11.IX.2023, Lindgren funnel trap baited with a multipheromone blend of cerambycids implemented with plant volatiles, 1 ex., INRAE-URZF leg. (LNEF-ONF). *Idem*, 08.VIII.2014, on wood packaging material imported from Sri Lanka, 1 ex., PEC76 leg. (ANSES). Since its first finding in Mions (**Rhône**), on January 29, 2014, by the SRAL Rhône-Alpes in pallet wood coming from Indonesia (Brustel & Aberlenc, 2014), this species is now regularly intercepted in France.

Status in France. – Only intercepted.

Geographical distribution. – Native to tropical and subtropical areas of Asia, it was introduced to Europe in France, Germany, Great Britain, Greece, Italy, Malta, Poland, Russia, Spain, Switzerland and Ukraine (Borowski, 2007; Brustel & Aberlenc, 2014; Chittaro & Sanchez, 2019; Lykidis et al., 2016; Nardi & Mifsud, 2015; Ruzzier et al., 2023; Savoldelli & Regalin, 2009) where it does not seem to have established. It was also introduced in tropical and subtropical areas of Africa, Oceania, and the Americas where it appears established (Wilstermann & Schrader, 2019). It is also considered introduced to Japan (Iwata & Nakano, 2006). In that respect, this species has become cosmopolitan.

Remarks. – This species presents a low phytosanitary risk in Europe where it does not yet appear to have been established. However, in Ukraine and Moldova it is on the list of quarantine pests (Wilstermann & Schrader, 2019). In Italy, it was able to do its complete cycle in buildings and cause notable damage to all the pallet wood stocked (Savoldelli & Regalin, 2009). It is polyphagous and infests the sap wood of dry dead/felled trees including wooden packaging. Due to its low damage potential for living plants, *S. unidentatum* does not pose any phytosanitary risk for EU Member States (Wilstermann & Schrader, 2019). This species is mainly introduced into Europe with packaging, pallet, or construction wood. If the damage does not concern living trees, it can sometimes be significant on timber and wooden objects, sometimes cultural (Lykidis et al., 2016).

Stenolophus (Egadroma) quinquepustulatus (Wiedemann, 1823)
(Carabidae)
(Fig. 1C, D)

France

– **Calvados**, Thaon, 49.25422°, -0.45388°, 14.XII.2021, 3 ex., S. Etienne (LNEF-ONF, SE). This is the first report of this seed corn beetle in France and Europe.

Status in France. – Only intercepted.

Geographical distribution. – Widely distributed in the Oriental region, the south-eastern portion of the Palearctic region (China, India, Nepal, Pakistan), Japan and northern parts of the Australian region (Jaeger & Ahmed, 2017; Jaeger & Kataev, 2003).

Remarks. – Three specimens of this species were found dead in a box of clothing from China, in a private home. Like its congeners, often auxiliary predators of crops, *S. quinquepustulatus* is present in cultivated areas and is even described as an enemy of Lepidoptera (probably caterpillars) in the List of insect species conserved and developed for agricultural production of an FAO report concerning Vietnam (FAO, 2014). It is subject to strong variability in the size, presence, and shape of the elytral maculae, already visible among the only 3 intercepted individuals (Fig. 1C, D).

Xyloperthodes nitidipennis (Murray, 1867) (Bostrichidae)
(Fig. 3B)

France

– **Bouches-du-Rhône**, Marseille, 30.VIII.2006, on wood packaging material imported from Ivory Coast, 1 ex., PEC13 leg. (ANSES).

– **Charente-Maritime**, La Rochelle, in the harbour, 46.16530°, -1.21521°, 01.VIII.2023, Lindgren funnel trap baited with a multipheromone blend of cerambycids implemented with plant volatiles, 1 ex., INRAE-URZF leg. (LNEF-ONF). These are the first interception records of this species in France.

Status in France. – Only intercepted.

Geographical distribution. – Native from sub-Saharan tropical Africa, this species was introduced to Europe, in Great Britain and Germany (Borowski, 2007, 2021). In Italy, it was reported for the first time in 1999-2000, at the port of Venice, introduced with wood from Cameroon (Ratti, 2004), not cited by Borowski (2007, 2021).

Remarks. – This species grows in the sapwood of various tropical forest tree species but is also reported to be able of infesting cassava chips (Delobel & Tran, 1993). It is also considered one of the most dangerous beetles for depreciating and altering timber (Lesne, 1924). Indeed, this insect attacks plywood and other

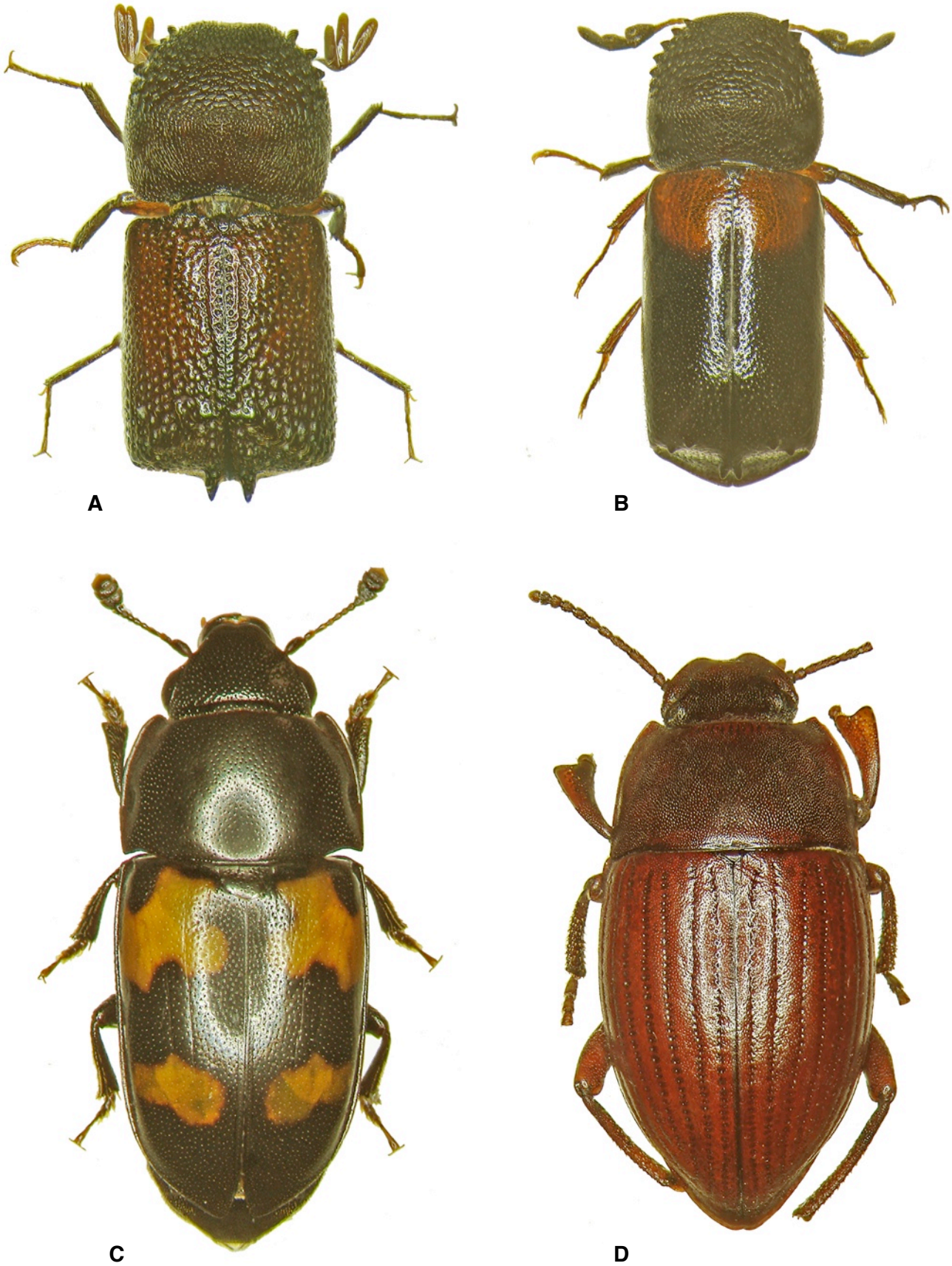


Fig. 3A-D. Habitus.

A. *Sinoxylon unidentatum* (Fabricius, 1801) (5.3 mm). **B.** *Xyloperthodes nitidipennis* (Murray, 1867) (5.0 mm). **C.** *Glischrochilus fasciatus* (A. G. Olivier, 1790) (6.6 mm). **D.** *Neoisocerus ferrugineus* (Fabricius, 1798) (8.5 mm).

wooden furniture made from Fromager (*Ceiba pentandra*) Koto (*Pterygota macrocarpa*) and Samba (*Triplochiton scleroxylon*) with spectacular damage (Doumbia & Kra Kouadio, 2009). It also attacks many African sapwood species such as Iroko (*Milicia excelsa*) or Fraké (*Terminalia superba*). The insect is the cause of the collapse of frames and wooden houses made with Samba wood, which is the cheapest tree species on the market in Africa (Doumbia & Kra Kouadio, 2009).

Discussion

France is a territory particularly favourable for the arrival and establishment of new invasive beetles due to its large surface area, the variety of climatic conditions, the many international ports and airports (Barnouin et al., 2020), its geographical location in Europe and its extensive motorway network. It should be noted that many species of beetles recently introduced into France have become established and are even expanding. Their list would be too long to establish here but some such as *Scyphophorus acupunctatus* Gyllenhal, 1838 (Dryophthoridae), *Xylosandrus compactus* (Eichhoff, 1875), *X. crassiusculus* (Motschulsky, 1866) (Curculionidae Scolytinae) and *Xylotrechus chinensis* (Chevrolat, 1842) (Cerambycidae) spread fairly quickly from several points-of-entry (Aberlenc et al., 2024; Barnouin et al., 2020; Soldati et al., 2024).

The number of new introduced species continues to grow in most European countries, due to increasingly intensive international trade (Seebens et al. 2017). In France, several very recently introduced beetles, mainly bark beetles, have not yet been officially published, for example: *Cyclorhipidion pelliculosum* (Eichhoff, 1878), *Monarthrum mali* (Fitch, 1855) or *Xyleborus volvulus* (Fabricius, 1775).

As part of this work, the treated species were detected for the first time or newly discovered in areas with high potential for introductions in France. It is not so surprising that concerns Corsica, port area of Bastia; Calvados and Seine-Maritime departments, with the port of Le Havre as the main source of introduction; Bouches-du-Rhône department, with the port of Marseille; Gironde department, with the port area of Bordeaux as the main point-of-entry; Pyrénées-Atlantiques department, with numerous sources of introductions including the port of Bayonne; finally, the Charente-Maritime department with the port of La Rochelle.

If seven species among the eight treated were captured by active research methods, four were contacted as part of the SORE project dedicated to test traps baited with generic lures for the early detection of new introductions of exotic xylophagous insects within the French port and airport areas (Fan et al. 2019; Roques & Auger-Rozenberg, 2023; Roques et al., 2023).

The implementation of early detection programs deserves to be continued and should be strengthened. Therefore, it is essential for an effective surveillance of the national territory that new detections are reported quickly to the national phytosanitary services (ANSES), so that specific eradication or containment measures can be implemented as soon as possible in case of possible damage and infestation risks when the detected species are considered as pests.

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Contribution of the authors ¹

Publisher correspondence. – FS

Writing the article. – FS, TB, CM, RM, AV, SBO, SBA, SE.

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Author of the figures. – FS.

¹ FS = Fabien Soldati – TB = Thomas Barnouin – CM = Cyrille Van Meer, – RM = Raphaëlle Mouttet – AV = Alexis Vincent – SBO = Sylvain Bonifait – SBA = Sandy Barbéris – SE = Sébastien Etienne.

Résumé

Soldati F., Barnouin T., Van Meer C., Mouttet R., Vincent A., Bonifait S., Barbéris S. & Etienne S., 2024. – Premières ou nouvelles observations de Coléoptères exotiques en France (Bostrichidae, Carabidae, Dryophthoridae, Monotomidae, Nitidulidae, Tenebrionidae et Zopheridae). *Faunitaxys*, 12(40): 1 – 12.

Huit espèces non autochtones de Coléoptères pour la France métropolitaine sont présentées en détails, incluant de nouvelles interceptions ou des premières observations dans ce pays. *Dryophthorus americanus* (Bedel, 1885) (Dryophthoridae), *Glischrochilus fasciatus* (A. G. Olivier, 1790) (Nitidulidae), *Neoisocerus ferrugineus* (Fabricius, 1798) (Tenebrionidae), *Stenolophus (Egadroma) quinquepustulatus* (Wiedemann, 1823) (Carabidae), *Xyloperthodes nitidipennis* (Murray, 1867) (Bostrichidae), ainsi qu'une espèce encore indéterminée appartenant au genre *Europs* (Monotomidae), sont signalées pour la première fois en France. De plus, *D. americanus*, *S. quinquepustulatus* et *Europs* sp. sont également observés pour la première fois sur le continent européen. Des individus capturés en France de toutes ces espèces sont présentés en photos et une clé illustrée permettant de séparer l'espèce américaine *Dryophthorus americanus* (Bedel, 1885) de son homologue européen *D. corticalis* (Paykull, 1792) est proposée.

Mots-clés. – Coléoptères, Bostrichidae, Carabidae, Dryophthoridae, Monotomidae, Nitidulidae, Tenebrionidae, Zopheridae, espèces exotiques, premières observations, nouvelles interceptions, Europe, France, Corse.

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Fabien Soldati, Thomas Barnouin, Cyrille Van Meer, Raphaëlle Mouttet, Alexis Vincent, Sylvain Bonifait, Sandy Barbéris & Sébastien Etienne 1 – 12

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First or new records of non-native beetles in France (Coleoptera: Bostrichidae, Carabidae, Dryophthoridae, Monotomidae, Nitidulidae, Tenebrionidae and Zopheridae).

Fabien Soldati, Thomas Barnouin, Cyrille Van Meer, Raphaëlle Mouttet, Alexis Vincent, Sylvain Bonifait, Sandy Barbéris & Sébastien Etienne 1 – 12

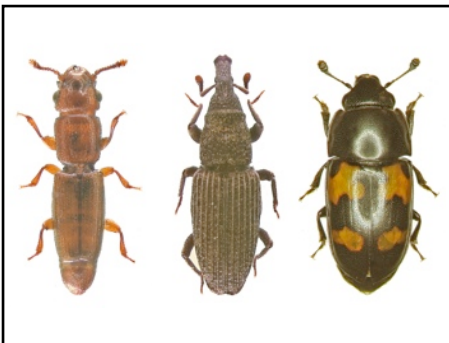


Illustration de la couverture :

Europs sp. (gauche)

Dryophthorus corticalis (Paykull, 1792) (milieu)

Glischrochilus fasciatus (A. G. Olivier, 1790) (droite)

Crédits:

F. Soldati: Fig. 1, 2 & 3.