

SEL News Lepidoptera

The Newsletter of the Societas Europaea Lepidopterologica



A kind reminder: please pay your membership fee – Rappel pour les paiements – Zur Erinnerung: bitte zahlen Sie Ihren Mitgliedsbeitrag2

Changes to the list of members – Changements à la liste des membres – Änderungen zur Mitgliederliste3

21st European Congress of Lepidopterology, Campobasso, Italy, June 3 to 7, 2019 – Third announcement4–8

Invitation to the General Meeting of the SEL – Invitation à l'Assemblée Générale de la SEL– Einladung zur Generalversammlung der SEL9–10

Life stages of *Nomophila noctuella* (Crambidae: Spilomelinae) on *Azolla* spp.11–12

Uresiphita gilvata (Fabricius, 1794): Interesting phenological data from Madrid (central Spain) (Crambidae: Pyraustinae)13

New Book: Volume 6 of the book series The Geometrid Moths of Europe14–15

Membership 2019 – Cotisation 2019 – Mitgliedschaft16

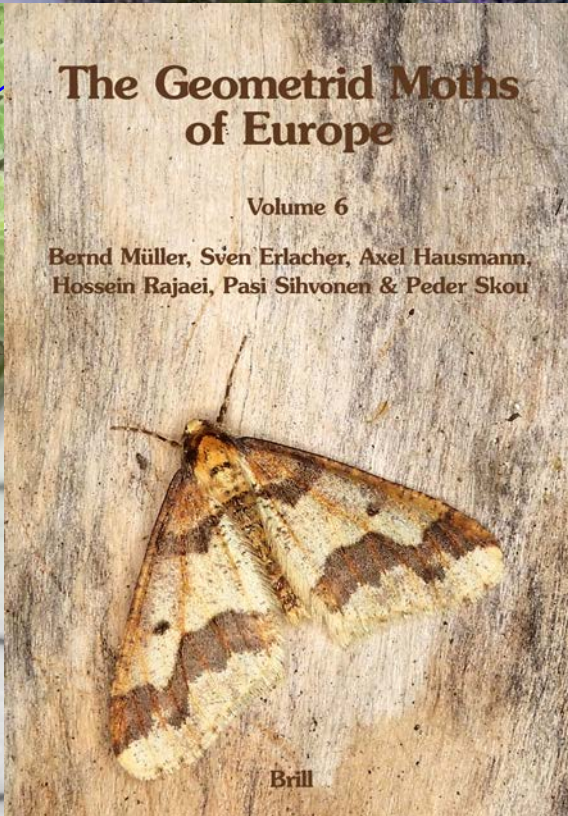
Application for membership – Bulletin de souscription – Aufnahmeantrag17



The Geometrid Moths of Europe

Volume 6

Bernd Müller, Sven Erlacher, Axel Hausmann, Hossein Rajaei, Pasi Sihvonen & Peder Skou





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A kind reminder: please pay your membership fee

Dear SEL members,
 Please check whether you have transferred your membership fee for 2019 and previous years:

Ordinary member: 50€
 Corporate member: 65€

The membership fee is due on January 1 of every year. Please transfer your (yet missing) membership fee to the account below. Alternatively you may also pay the amount to your local treasurer (see page 16). Thank you! If your address has changed, please inform the Membership Secretary Hossein Rajaei (hossein.rajaei@smns-bw.de).



Rappel pour les paiements

Chers membres de la SEL,
 Merci de vérifier que vous avez bien payé votre cotisation pour 2019 et les années précédentes.

Membres ordinaires: 50€
 Institutions et entreprises: 65€

La cotisation annuelle est due à compter du 1er janvier. Merci d'opérer le transfert bancaire de votre cotisation 2019 (et éventuellement celles des années précédentes) au compte bancaire ci-dessous. Vous pouvez aussi payer à votre trésorier national, dont la liste est à la page 16 de SELepidoptera News. Merci d'informer Hossein Rajaei, le secrétaire aux membres, de votre nouvelle adresse, si elle a changée (hossein.rajaei@smns-bw.de).



Zur Erinnerung: Bitte zahlen Sie Ihren Mitgliedsbeitrag

Liebes SEL-Mitglied,
 bitte prüfen Sie, ob Sie Ihren Mitgliedsbeitrag für 2019 und die vorangegangenen Jahre bezahlt haben.

Einfache Mitglieder: 50€
 Institutionelle Mitglieder: 65€

Ihr SEL-Mitgliedsbeitrag wird immer zum 1. Januar eines jeden Jahres fällig. Bitte überweisen Sie Ihren (ggf. noch ausstehenden) Betrag auf das unten stehende Bankkonto. Alternativ können Sie den Betrag auch an Ihren SEL-Schatzmeister vor Ort (siehe Seite 16) bezahlen. Vielen Dank im Voraus! Falls sich Ihre Adresse geändert haben sollte, wenden Sie sich bitte an den SEL-Mitgliedersekretär Hossein Rajaei (hossein.rajaei@smns-bw.de).

Bank: Postbank Köln

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Changes to the list of members – Changements à la liste des membres – Änderungen zur Mitgliederliste

Hossein Rajaei, SEL membership secretary; hossein.rajaei@smns-bw.de



Abbreviations – abréviations – Abkürzungen

SI: special interests – intérêts – Interessen

New members – Nouveaux membres – Neue Mitglieder

Chiocchio, Andrea (Italy)

SI: Erebidae, Syntomini

Kovacs, Sandor (Romania)

SI: Lepidoptera

Park, Kyu-Tek (South-Korea)

SI: Microlepidoptera, Lecithoceridae

Polyxena a.p.s. (Italy)

SI: Conservation)

Sbordoni, Valerio (Italy)

SI: Pieridae

Skowron Volponi, Marta (Poland)

SI: Sesiidae

Takacz, Attila (Hungary)

Vrenozi, Blerina (Albania)

Deceased – Décédé – Verstorben

Thomas Witt (September 2, 1947 – January 27, 2019)

Resignations – Démission – Austritte

Dell'Agata, Massimo (Italy)

Elias, Otto (Germany)

Lafontaine, Donald (Canada)

Pickles, John (UK)

Prichard, Tony (UK)

Teobaldelli, Adriano (Italy)

van der Heyden, Torsten (Germany)

van Roosmalen, John (Netherlands)

Deleted – radiés – Gelöscht

Durante, Mario (Italy)

Hasenfuss, Ivar (Germany)



21st European Congress of Lepidopterology, Campobasso, Italy June 3 to 7, 2019 – *Third announcement*

Pasquale Trematerra, trema@unimol.it



The University of Molise, Campobasso (Italy), and the Council of Societas Europaea Lepidopterologica (SEL) invite all SEL members, and non members, to the 21st European Congress of Lepidopterology, to be held in Campobasso, Italy, June 3–7, 2019.

How and when to register?

Registration is open and must be completed online on the congress website:

<http://www.sel2019conference.com/>

Dates and fees

April 1, 2019*: early registration online at website address (see above), fee: € 150/200/125**

From April 1, 2019* onwards: late registration, fee: € 200/250/150

April 15, 2019: abstract submission deadline

Whole period: accompanying person, fee: € 50/person

Whole period: post-congress trip to Pompeii on June 7, 2019, fee: € 50/person

* – **NOTE: The Early bird deadline has been postponed two weeks!!**

** – Registration fees are for: SEL and LepSoc Members/non-members/students, respectively

Registration fees include: participation, congress material and abstracts program, coffee breaks, lunches, congress dinner, half-day field excursion, certificate of participation.

Payment

Payment can be completed as bank transfer (details at <http://www.sel2019conference.com/>), or at the registration desk upon arrival in cash (EURO only) or by Credit Card.

Venue

The congress will take place at the University of Molise, Campobasso. Detailed information on how to get to Campobasso and the University of Molise can be found at: <http://www.sel2019conference.com/>

Accommodation and meals

Campobasso hosts a wide range of accommodation possibilities, six of which are listed on the congress website. Participants are requested to book their own accommodation either through the Di Paola Agency (when you fill in the form on the site) or through direct contact with the accommodations that we suggest; alternatively you can search on the internet for other B&Bs or Airbnb opportunities. Lunch is included in the registration fee, but participants are requested to organize dinner by themselves.



Figure 1. University of Molise, Campobasso



Figure 2. Protected area of Guardiaregia-Campochiaro

Preliminary program

Monday, June 3	15.00–19.00: welcome reception and opening of the Congress
Tuesday, June 4	8.30–18.30: oral presentations and poster session 20.30: congress dinner
Wednesday, June 5	8.30–13.00: oral presentations and poster session 14.00: half-day excursion to Campitello Matese
Thursday, June 6	8.30–16.00: oral presentations and Poster session 16.00–18.30: General meeting 18.30–19.30: closing remarks
Friday, June 7	7.00–16.30: post-congress excursion to Pompeii 16.30–18.30: back to Campobasso or Roma

Scientific program

See below for details.

The deadline for submitting abstracts for oral presentations and posters is April 15, 2019.

Student competition

Students (BSc, MSs and PhD) are invited to enter their presentations to the student competitions (one for poster presentations and one for oral presentations). Please indicate if you are a student who wishes to enter the competition when you register your talk.

Social Program open to Accompanying persons

Monday, June 3	15.00–19.00: welcome reception
Tuesday, June 4	20.30: congress Dinner
Wednesday, June 5	14.00: half-day excursion to Campitello Matese
Friday, June 7	7.00–16.30: post-congress excursion to Pompeii

Other activities for accompanying persons will be organized by Agenzia di Paola Viaggi, including a visit to Campobasso town, to Termoli, and to Alto Molise (see congress website).

Mid-week excursion

A half-day mid-week excursion to the subalpine Campitello Matese area on Wednesday, June 5, is included in the registration fee.

Congress Dinner

The Congress Dinner will be held on Tuesday, June 4, at Piana dei Mulini Farmhouse. It is included in the registration fee (extra drinks are not included).

Post Congress excursion

A full post-congress excursion to the UNESCO World Heritage Site of Pompeii will be held on Friday, June 7, for an additional cost of € 50/person. This includes bus transportation, entrance fee and lunch. After the excursion, busses will bring participants either to Rome airport or back to Campobasso.



Figure 3. Campobasso: typical architectural structure of central Italy

GENERAL INFORMATION

Collecting

In the area surrounding the congress site, the collection of insects does not require special permits. The collections made in protected areas and Parks can only be carried out after receiving appropriate permits.

Climate and weather

Molise enjoys a warm and temperate climate with significant rainfall throughout the year. In Campobasso the average temperature in June is around 20°C. But it is always recommended to check the local forecast before going out.

Currency

Italy is part of the European EURO Zone, and Euro is the used currency. ATMs are common in cities and towns, but may be scarce in rural areas. Major credit cards are accepted in most stores and restaurants, but it is recommended that visitors carry sufficient supply of cash.

Visa

Italy belongs to the European Union, so visitors from member states do not need visa. Visitors from other countries should check visa requirements with their local Italian embassy before registering. An invitation letter can be provided after registration and send to the participants.

SUPPORT FOR MEMBERS

The SEL council has some funds available to support members who would like to attend the SEL conference but have insufficient funds themselves. Grants are awarded to individuals to cover expenses associated with transport, registration, hotel, meals, poster printing, etc. SEL cannot afford to pay the full costs, but will try to use the funds in the best possible way.

These grants are competitive and reviewed by a panel. Any submitted applications without all the required documents listed below will not be considered. All grantees are required to give a presentation (poster or talk). We especially encourage applications from students and amateurs who lack financial means to attend the congress.

Required elements for grant consideration

The following documents *must* be included in the application in a single pdf file: 1) Letter of motivation including a statement as to why attendance of the SEL conference is considered important for the applicant's career and/or activities (max. one A4 page); 2) short CV; 3) title of the proposed presentation including an abstract following the guidelines found at the registration page; 4) a short budget plan, including all expected expenses and other potential sources of subsidy; include the amount of money that you need from SEL. SEL subsidies will most likely be in the range of EUR 300–500 maximum.

Submission and important dates

All applications should be written in English and submitted before March 15, 2019. Final decision and notification will be before April 10, 2019. All applications should be sent to the general Secretary, Carlos Lopez Vaamonde: carlos.lopezvaamonde@inra.fr

SCIENTIFIC PROGRAM

SEL Council is happy to present the overall outline of the scientific program for the 21st European Congress of Lepidopterology in Campobasso, Italy. We think that the program is interesting and broad, and will appeal to all lepidopterists, whether amateur or professional.

We are proud to announce the following **key-note speakers**:

Peter Witzgall (Swedish University of Agricultural Sciences): Chemical ecology of Lepidoptera

Atsushi Kawakita (University of Tokyo): Pollination and Lepidoptera-plant interactions

Geoff Martin (Natural History Museum London): Digitisation of Lepidoptera collections

Jürg Schmid (Ilanz, Switzerland): Alpine Lepidoptera life histories

The program is comprised of (at least) the following **symposia and workshops**:

1. Diversity of Italian Lepidoptera (organiser Alberto Zilli)
2. Chemical ecology and multitrophic interactions (organiser Pasquale Trematerra)
3. Collections and digitisation (organiser Geoff Martin)
4. Lepidoptera-plant interactions (organiser Carlos Lopez-Vaamonde)
5. Evolutionary History of Lepidoptera (organiser Jadranka Rota)
6. Online observation platforms and portals (organiser Jurriën van Deijk)

Congress participants are encouraged to submit their presentations to a specific symposium. However, in addition to the symposia and workshops listed above, the program also has a session with short, three-minute presentations for brief communications on all topics, as well as plenty of room for the common 20-minute talks on subject which do not fit into the symposia and workshops, and a poster session for poster presentations. Small changes in this program are still possible.

Please don't forget that the deadline for submission of your abstract is April 15!



Figure 4. Dune vegetation of Campomarino



Preview into the Congress symposium "Evolutionary history of Lepidoptera: from fossils to genomes"

By *Jadranka Rota*

In this symposium we would like to focus on higher-level Lepidoptera phylogenetics and phylogenomics as well as using trees for understanding the evolution of Lepidoptera, especially focusing on timing of divergence using fossils and patterns in diversification of different groups. The list of speakers below includes people who have agreed to come and give the listed presentations,.

Nicolas Chazot, University of Gothenburg, Sweden

Diversification of Nymphalidae butterflies: insights from a species-level phylogeny

Andrea Chiochio, Lund University, Sweden

Diversification of butterflies and moths from the time of dinosaurs to present day: a supertree approach

Marianne Espeland, Zoological Research Museum Alexander Koenig, Germany

Advancing Lepidoptera phylogenetics: Sequencing hundreds of genes from hundred year old museum material

Maria Heikkilä, University of Helsinki, Finland

Estimating the age of Lepidoptera with fossils meeting strict quality criteria – preliminary results

Jadranka Rota, Lund University, Sweden

Diversification dynamics in metalmark moths (Choreutidae): did long-distance dispersals lead to higher diversification rates?

Daniel Rubinoff, University of Hawaii, USA

Historical biogeography of Saturnia (Saturniidae): the importance of the North Atlantic Land Bridge

Niklas Wahlberg, Lund University, Sweden

Manually curated data: the next step in Lepidoptera phylogenomics?

Congress session: Three minute talks session

By *Hossein Rajaei*

As announced earlier, we will have a "3-min talks" session in the next congress as in the previous one, where it was a great success. Here are some rules to this session:

The topic of these 3-min talks may fall in one of the following categories:

- Introduction and announcement of a new project
- Introduction of new taxa
- Invitation for collaboration
- Advertising new events
- any other topic that can be addressed in three minutes

The presentation will need to adhere to the following format:

1. The presentation is limited to 180 seconds.
2. There is no extra time for questions; all discussions should be continued after the session.
3. You should prepare a maximum of three slides (ideally just one slide!).
4. If you are presenting newly described taxa, state to which superfamily and family the new taxon belongs, explain the etymology, show the taxon distribution on a map and some photographs of the habitat of the new taxon, if possible.

When registering, please mention that you want to present a 3-min talk (and not the common 20-min one).

NOTE: a three minute talk is also mandatory for all poster presenters!



Invitation to the General Meeting of the Societas Europaea Lepidopterologica on June 6, 2019 in Campobasso, Italy

Invitation à l'Assemblée Générale de la Societas Europaea Lepidopterologica du 6 juin 2019 à Campobasso en Italie

Einladung zur Generalversammlung der Societas Europaea Lepidopterologica am 6. Juni 2019 in Campobasso, Italien

Carlos Lopez-Vaamonde, SEL General Secretary; carlos.lopezvaamonde@inra.fr



p 9



pp 9-10



p 10

Invitation to the General Meeting of the SEL 2019

All SEL members are cordially invited to attend an Ordinary SEL General Meeting due to take place on Thursday, June 6, 2019 at the University of Molise, Campobasso, Italy. The meeting is planned to begin at 4.00 p.m. and Council proposes the following agenda.

Members unable to attend the General Meeting are referred to paragraph 3 of section 4 in the SEL statutes (available on website) concerning postal votes.

This invitation is published on March 1, 2019, according to the SEL Statutes, paragraph 4.

Agenda

1. Opening, welcome
2. Report of the SEL Council
3. Report of the Treasurer
4. Auditor's Report
5. Report of the Editor
6. Report of Committee Chairmen
7. Council proposals
8. Discharge of Council, Auditors, and Committee Chairmen
9. Appointment of Election Leader
10. Election of Council members
11. Election of Committee chairmen
12. Election of auditors
13. A SEL Field Congress: North Macedonia, 2020
14. The 22nd SEL Congress in Estonia, 2021
15. Members' proposals
16. Nomination and election of honorary members
17. Any other business

Item 7. Council proposes to modernise the Statutes and Bye Laws, in order to follow more current practices, and allow more flexibility. As the German text of the Statutes must follow rather strict rules according to German law, we suggest to do this in two steps. Firstly, in this meeting we discuss the changes to be made and then council prepares the final texts for voting during the following GM. Details of our proposals will be sent later.

Item 10. Election of Council members. The 4-year term of Erik van Nieukerken (president), Thomas Simonsen (Vice-President), Carlos Lopez-Vaamonde (General Secretary) and Hossein Rajaei (Membership secretary) ends. CLV wants to step down as secretary, the others stand for re-election. Council proposes Marianne Espeland as candidate General Secretary. The 4-year term of Ordinary council members Joaquin Baixeras, Iva Mihoci and Pasquale Trematerra also ends and they cannot be immediately re-elected as Ordinary council members. Council proposes to elect the following new Ordinary council members: Carlos Lopez-Vaamonde, Toomas Tammaru and Enrique Garcia Barros.

Item 12. Election of auditor: The 4-year term of Rolf Mörtter ends, council is looking for a candidate to replace him.

Item 15. Members' proposals: any proposals by members are to be submitted in writing to the General Secretary, Dr. Carlos Lopez

Vaamonde (email: carlos.lopezvaamonde@inra.fr) by 1 May, 2019.

Item 16. Nomination and election of honorary members. Council nominates David Agassiz and Ole Karsholt as new honorary members.

Invitation à l'Assemblée Générale de la SEL 2019

Tous les membres de la SEL sont cordialement invités à participer à l'Assemblée Générale ordinaire de la SEL qui se tiendra à 16h00, le 6 juin 2019 à l'Université de Molise, Campobasso en Italie.

L'ordre du jour établi par le Conseil est indiqué ci-dessous. Les membres qui ne pourraient pas participer à cette AG sont invités à se reporter au §3, section 4 des Statuts de la SEL, qui traite du vote par correspondance. Conformément aux statuts de la SEL (§4), cette convocation prend effet au 1 mars 2019.

Ordre du jour

1. Ouverture
2. Rapport d'activités du Conseil
3. Rapport financier
4. Rapport des auditeurs comptables
5. Rapport de l'éditeur
6. Rapport du responsable des comités
7. Propositions du Conseil
8. Quitus aux Conseil, au trésorier et au responsable des comités





- 9. Désignation du superviseur des élections
- 10. Election des membres du Conseil
- 11. Election du responsable des comités
- 12. Election des auditeurs comptables
- 13. Un congrès sur le terrain : Macédoine du Nord, 2020
- 14. Le XXIIème congrès de la SEL en Estonie, en 2021
- 15. Propositions des membres.
- 16. Nomination et élection des membres honoraires
- 17. Autres sujets

Item 7 . Propositions du Conseil. Le Conseil propose de moderniser les statuts pour suivre des pratiques plus modernes et permettre plus de flexibilité. Comme le texte en allemand des Statuts doit suivre des règles strictes de la loi allemande nous suggérons de faire cela en deux étapes. Durant l'AG de 2019 nous discuterons les changements à faire et le Conseil préparera les textes finaux pour approbation à l'Assemblée Générale suivante. Les modifications proposées vous seront adressées plus tard.

Item 10. Élection des membres du Conseil. Le mandat de 4 ans d' Erik van Nieukerken (Président), de Thomas Simonsen (Vice-Président), de Carlos Lopez-Vaamonde (Secrétaire Général) et de Hossein Rajaei (Secrétaire aux membres) se termine. CLV veut quitter sa fonction de secrétaire, les autres se représentent pour leur poste. Le Conseil propose Marianne Espeland comme candidate au poste de Secrétaire Général. Le mandat de 4 ans de Joaquin Baixeras, de Iva Mihoci et de Pasquale Trematerra, membres ordinaires du Conseil, vient à échéance. Le Conseil propose Carlos Lopez-Vaamonde, Toomas Tammaru et Enrique Garcia Barros comme candidats.

Item 12. Election des auditeurs comptables. Le mandat de 4 ans de Rolf Mörntter vient à terme, Le Conseil lui recherche un successeur.

Item 15. Propositions des membres. Propositions ou suggestions de

membres doivent être adressées par écrit au secrétaire général, Dr. Carlos Lopez Vaamonde, (courriel: carlos.lopezvaamonde@inra.fr) avant le 1 mai 2019.

Item 16. Nomination et élection des membres honoraires. Le CA propose David Agassiz and Ole Karsholt comme membres d'honneur de la SEL.

Einladung zur Generalversammlung der SEL 2019

Alle SEL-Mitglieder sind herzlich zur SEL-Generalversammlung eingeladen, die am Donnerstag, den 6. Juni 2019 im Molise's Universität, Campobasso, Italien, stattfinden wird. Der Veranstaltungsbeginn ist für 16.00 Uhr geplant. Der Vorstand schlägt die nachstehende Agenda vor. Mitglieder, die nicht an der Generalversammlung teilnehmen können, werden bezüglich Briefwahl auf Paragraph 4 Abschnitt 3 der SEL-Satzung verwiesen. Fristgerecht in Übereinstimmung mit den Statuten der SEL (§4:1) wird diese Einladung am 1. März 2019 veröffentlicht.

Agenda

- 1. Eröffnung, Begrüßung
- 2. Bericht des SEL-Vorstandes
- 3. Bericht des Schatzmeisters
- 4. Bericht der Rechnungsprüfer
- 5. Bericht des Editors
- 6. Bericht des Vorsitzenden des Komitees
- 7. Vorschläge des Vorstandes
- 8. Entlastung des Vorstandes, der Rechnungsprüfer und der Komiteevorsitzenden
- 9. Ernennung des Wahlleiters
- 10. Wahl des Vorstandes
- 11. Wahl der Komiteevorsitzenden
- 12. Wahl der Rechnungsprüfer
- 13. Ein SEL Feldkongress: Nordmazedonien 2020
- 14. Der XXII. SEL-Kongress in Estland, 2021
- 15. Mitgliedervorschläge.
- 16. Ernennung von Ehrenmitgliedern
- 17. Weitere Diskussionspunkte.

TOP 7. Der Vorstand schlägt vor, die Statute und Satzung zu moder-

nisieren um modernen Methoden zu folgen und mehr Flexibilität zu ermöglichen. Da der deutsche Text der Statute nach deutschem Recht dazu recht strenge Regeln vorsieht, schlagen wir vor, diese Modernisierung in zwei Schritten zu vollziehen. Zunächst werden wir im Meeting die geplanten Änderungen diskutieren. Im Anschluss wird der Vorstand den neuen Text aufsetzen und zur Abstimmung in der Generalversammlung stellen. Details unserer Vorschläge werden später versendet.

TOP 10. Wahl der Vorstandsmitglieder. Die jeweils 4-jährige Amtszeit von Erik van Nieukerken (Präsident), Thomas Simonsen (Vizepräsident), Carlos Lopez-Vaamonde (Generalsekretär) and Hossein Rajaei (Mitgliedersekretär) enden. CLV möchte von seinem Amt zurücktreten und steht für eine Wiederwahl nicht zur Verfügung. Die Anderen stehen zur Wiederwahl. Die 4-jährige Amtszeit der Ordentliche Vorstandsmitglieder Joaquin Baixeras, Iva Mihoci und Pasquale Trematerra endet und sie können nicht wiedergewählt werden. Der Vorstand schlägt die Wahl folgender Ordentliche Vorstandmitglieder vor: Carlos Lopez Vaamonde, Toomas Tammaru und Enrique Garcia Barros.

TOP 12. Wahl der Rechnungsprüfer. Die 4-jährige Amtszeit von Rolf Mörntter endet. Der Vorstand sucht noch ein Kandidat.

TOP 15. Mitgliedervorschläge. Jegliche Mitgliedervorschläge müssen bis zum 1. Mai 2019 in schriftlicher Form an den SEL-Generalsekretär Dr. Carlos Lopez Vaamonde (E-Mail: carlos.lopezvaamonde@inra.fr) geschickt werden.

TOP 16. Ernennung von Ehrenmitgliedern. Der Vorstand nominiert David Agassiz und Ole Karsholt als neue Ehrenmitglieder. ■

Life stages of *Nomophila noctuella* (Crambidae: Spilomelinae) on *Azolla* spp. (Salviniaceae)

Atousa Farahpour-Haghani & Mahdi Jalaiean, hpapiliona@gmail.com

Nomophila noctuella (Denis & Schiffermuller) and *Diasemiopsis ramburialis* (Duponchel) are two migratory moths belong to Spilomelinae (Crambidae). Both species were recently found feeding on *Azolla* spp. (Salviniaceae, water ferns) in the northern region of Iran and had almost similar feeding activity and damage symptoms. We compare the two species' feeding behavior on the new host plant and during this survey we photographed all life stages of both species on *Azolla* spp. We described *D. ramburialis* life stages before and the life stage photos were published as well. In addition, results from our comparative studies are going to be published in future.



Figure 1. *Nomophila noctuella* adults

Nomophila noctuella (Fig. 1) is known to be a polyphagous species, which is associated with numerous host plants worldwide and its life stages were described before; therefore a new description is not necessary. In addition, *Myriophyllum* spp. (Haloragaceae) were other recorded aquatic host plants for this moth. However, the moth is known as an above-water defoliator, and feeds on shoots of this host plant. *Azolla* spp. are free floating plants. Therefore, for the terrestrial larvae of this moth, the feeding behavior and the habitual shelter-making behavior, which keep them from drowning, are important and a key factors for their survival on a new aquatic host. Therefore, we thought photos of different life stage of this moth on the new host plant with a short description for each stage would be interesting.

Eggs are globular, off-white in color and laid singly or in groups of two or three on *Azolla* spp. leaves or smooth surfaces of other materials near the food plant (Fig. 2).

Freshly hatched larvae are pale with black head capsule and have sparse setae on their body. As the

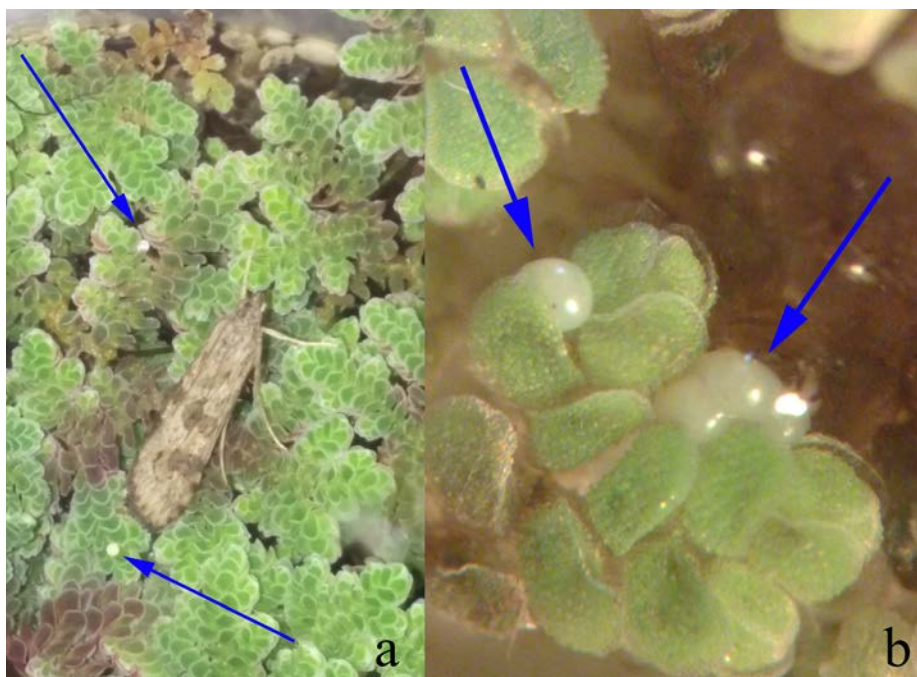


Figure 2. *Nomophila noctuella* eggs on *Azolla* spp. (a: a female and its freshly laid eggs; b: eggs)

larva develops, its color becomes darker, the setae increase in length, and dark spots appear at the base of the setae. The final-instar larva is greenish brown with black head capsule. (Fig. 3)

Pupation usually takes place on the water-fern surface or higher places near the food plant in a thin silky case (Fig. 4)

Larvae are phyllophagous and build shelters by binding leaves together with silk and remain hidden in their shelters when they are not actively feeding. When larvae mature, they leave their shelter and wander on water fern leaves in silky tunnels filled with frass (Fig. 5a). Feeding damage by larvae facilitated the infection of water fern with bacteria and fungi (Fig. 5b).

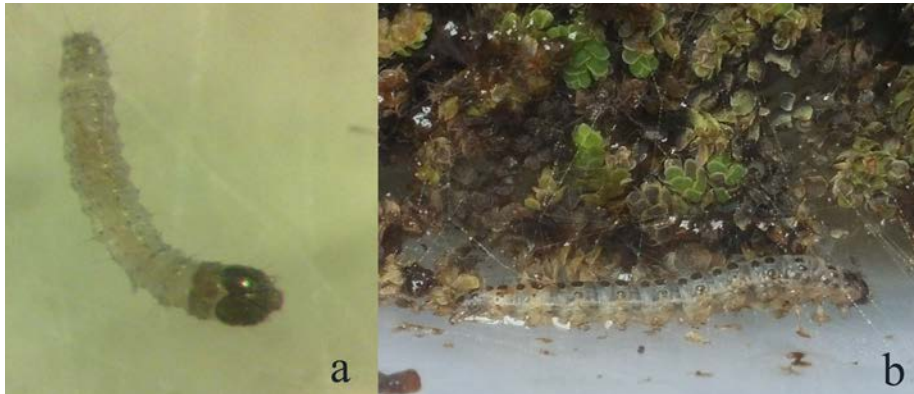


Figure 3. *Nomophila noctuella* larvae (a: first instar larva; b: last instar larva on *Azolla* spp.)



Figure 4. *Nomophila noctuella* pupa on *Azolla* spp.

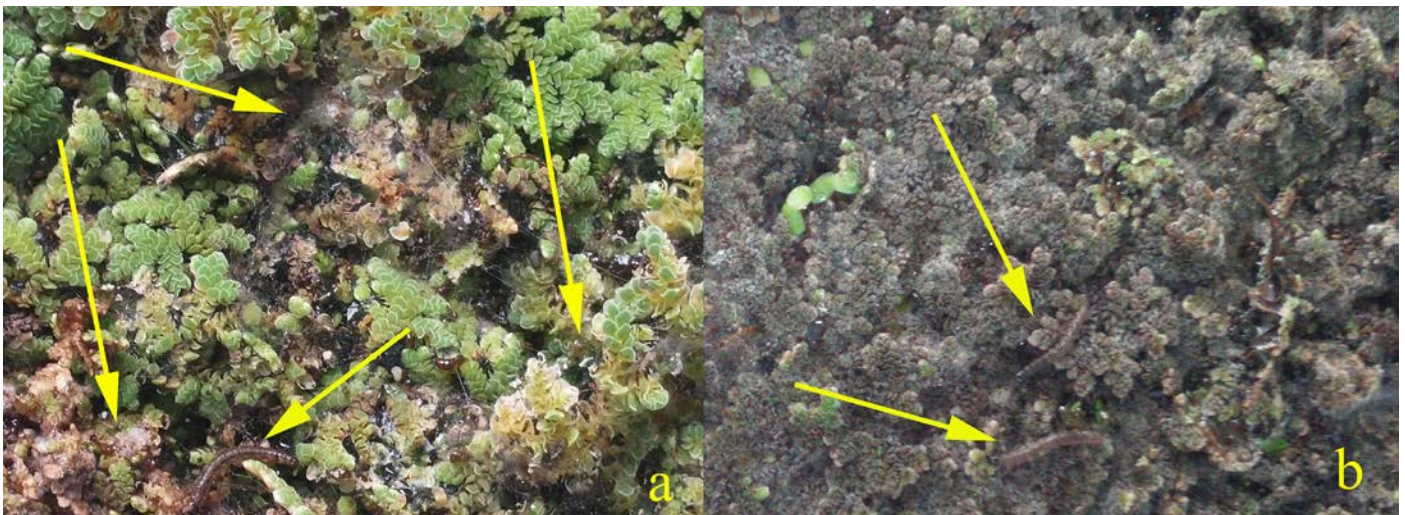


Figure 5. *Nomophila noctuella* damage symptoms on *Azolla* spp. (a: larval shelters and a wandering larva; b: decomposed water fern at the end of larvae feeding activity with two wandering larvae)

References

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Uresiphita gilvata (Fabricius, 1794): Interesting phenological data from Madrid (central Spain) (Crambidae: Pyraustinae)

Gareth Edward King, Madrid, Spain, sterrhinae@gmail.com

Goater (1986) cites this crambid (Fig. 1) as an important migrant being distributed from south-central Europe through the Indo-Tropics to Australia. Gómez de Aizpúrua (1990) and Sarto i Monteys (2002) cite it in Mediterranean Spain from NW Madrid through to Barcelona. In terms of its phenology in Spain, Gómez de Aizpúrua (1990) mentions it as monovoltine, whilst Sarto i Monteys (2002) state the 'probability' that it is bivoltine. In Madrid, Gómez de Aizpúrua (1990) states that larvae are found from the 'second half of July until the end of September'.

Recent experience with the larvae (Fig. 2) of this species in terms of field data from Madrid since 2000 (based on field observations per se rather than a concrete methodology) would suggest that this moth is probably tri-voltine

and that its ecological status as an r-strategist would suggest that it is able to overwinter either as a cocoon or as a larva.

Material examined or observations in field.

Los Perales, El Goloso, Madrid (720m): imago observed: 11.iv.14; imago observed: 3.iv.15; various larvae always in *Lygos sphaerocarpa* (Fabaceae): 17.v.15, 23.v.15; 3.x.15, 6.x.15; 5x L5 larvae: 12.xi.16; 4x L4, L5 5.xi.17, 3x L5 9.xi.17, several 18.xi.17, 1x L5 14.xii.17, 3x L5 13.i.18; 2x L5 26.v.18, 5x L5 27.v.18, several L3, L5 14.x.18; Valdemoro, La Cañada (600m): 2x L5: 12.vii.00.

The larvae collected January 2018 produced imagines 24.ii.18–1.iii.18; larvae have also produced adults in the winter on previous occasions, e.g. larvae collected in

October 2015 produced imagines as from 19.xii.15 although this could be an artefact of artificial conditions.

References

Goater, B. (1986). British Pyralid Moths, A Guide to their identification. Harley Books, 175 pp.

Gómez de Aizpúrua, C. (1990). Biología y morfología de las orugas (Lepidoptera), tomo VIII. Oecophoridae, Gelechiidae, Yponomeutidae, Tortricidae, Pyralidae. Boletín Sanidad Vegetal, Fuera de Serie, número 18, 220 pp, Ministerio de Agricultura, Pesca y Alimentación, Madrid.

Sarto i Monteys, V. (2002). Nueva planta alimenticia para *Uresiphita gilvata* Lep. Crambidae y nuevo parasitoide braconido (Hymenoptera) de ésta. Phytoma (España), no. 138, 43–45. ■



Figure 1. *Uresiphita gilvata* (Fabricius, 1794): ♀ ex larva 13.i.18, El Goloso, Madrid.

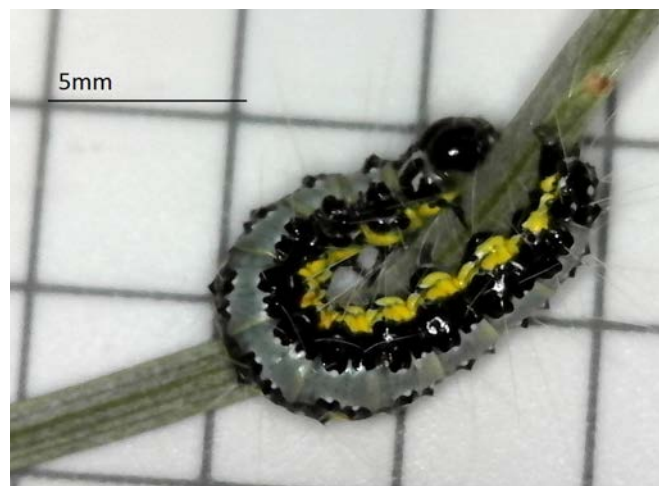
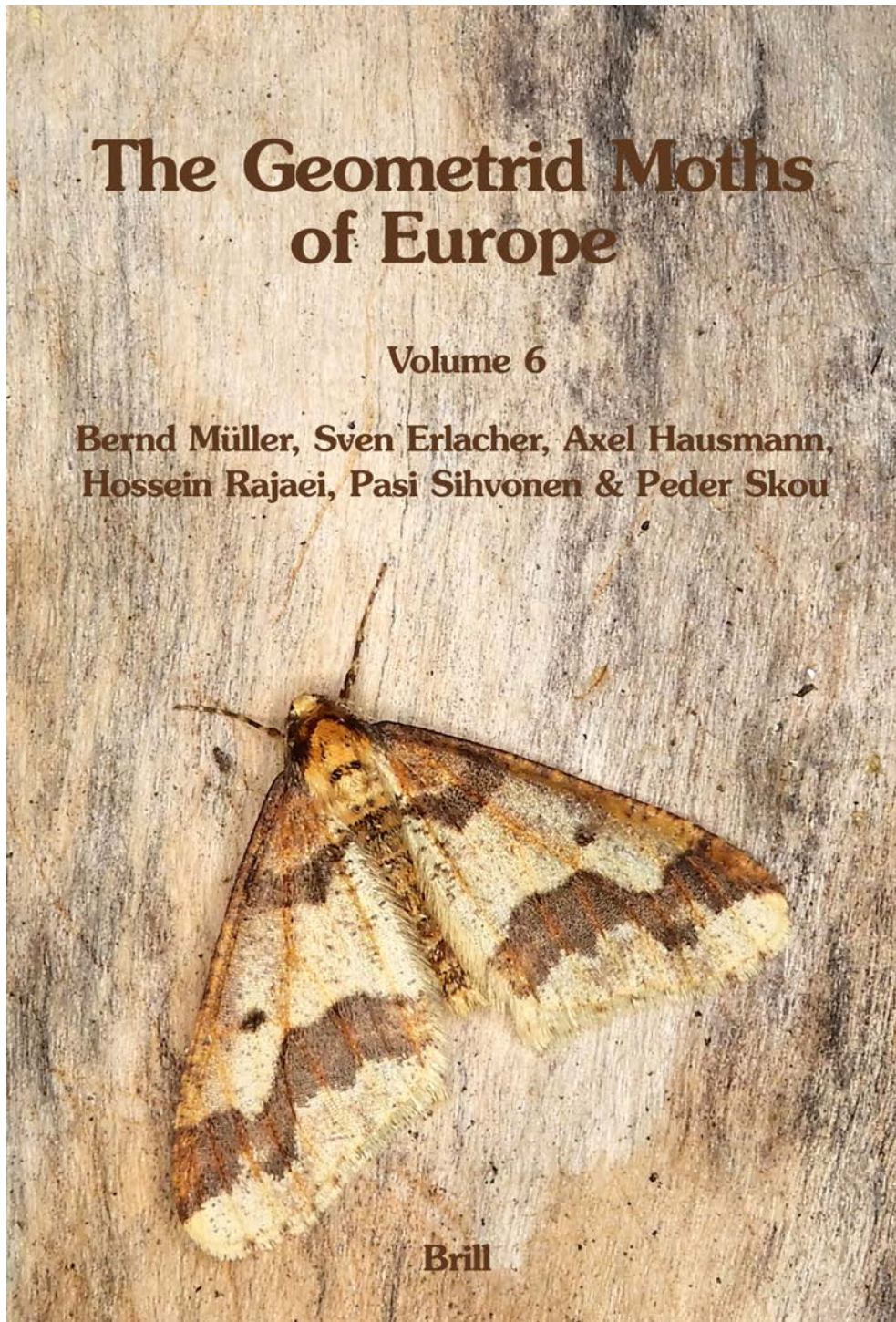


Figure 2. *Uresiphita gilvata* (Fabricius, 1794): L5 larva 14.x.18, El Goloso, Madrid.



New Publications

Volume 6 of the book series *The Geometrid Moths of Europe* to be published by June 2019!



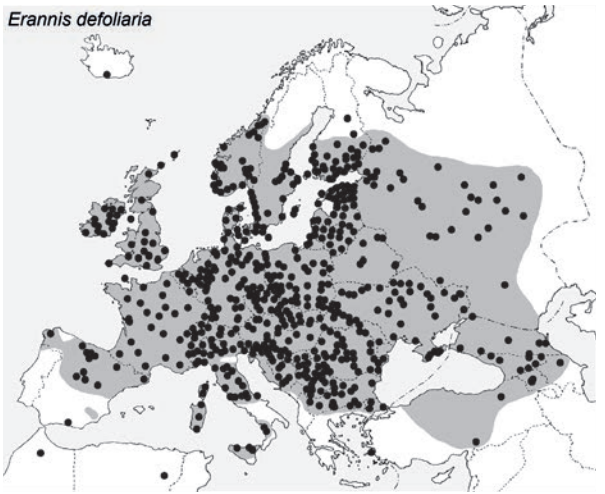
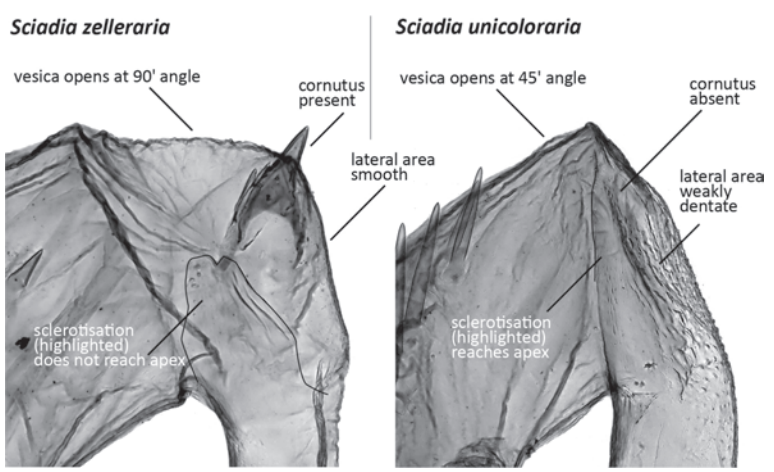
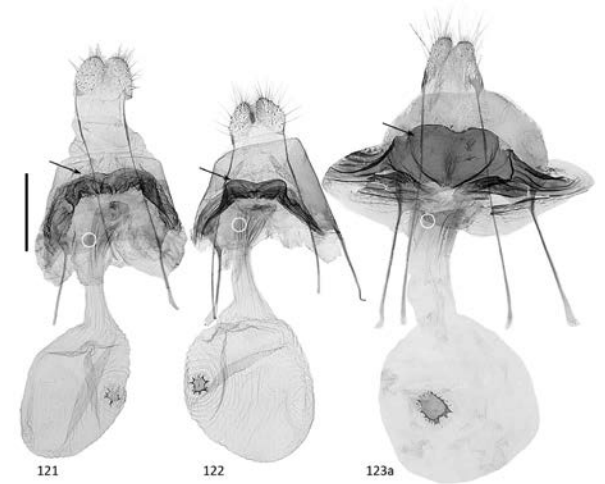
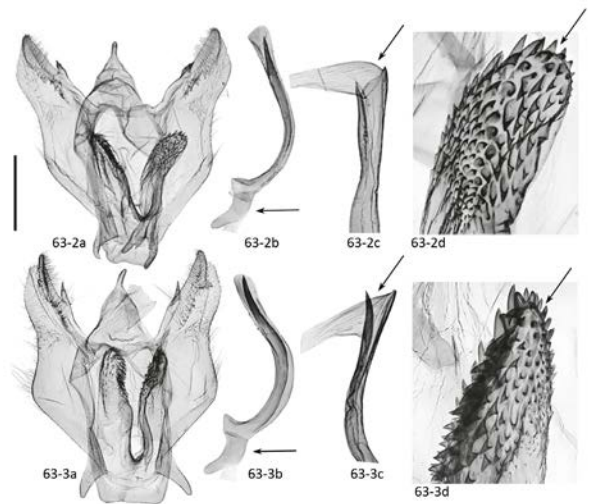
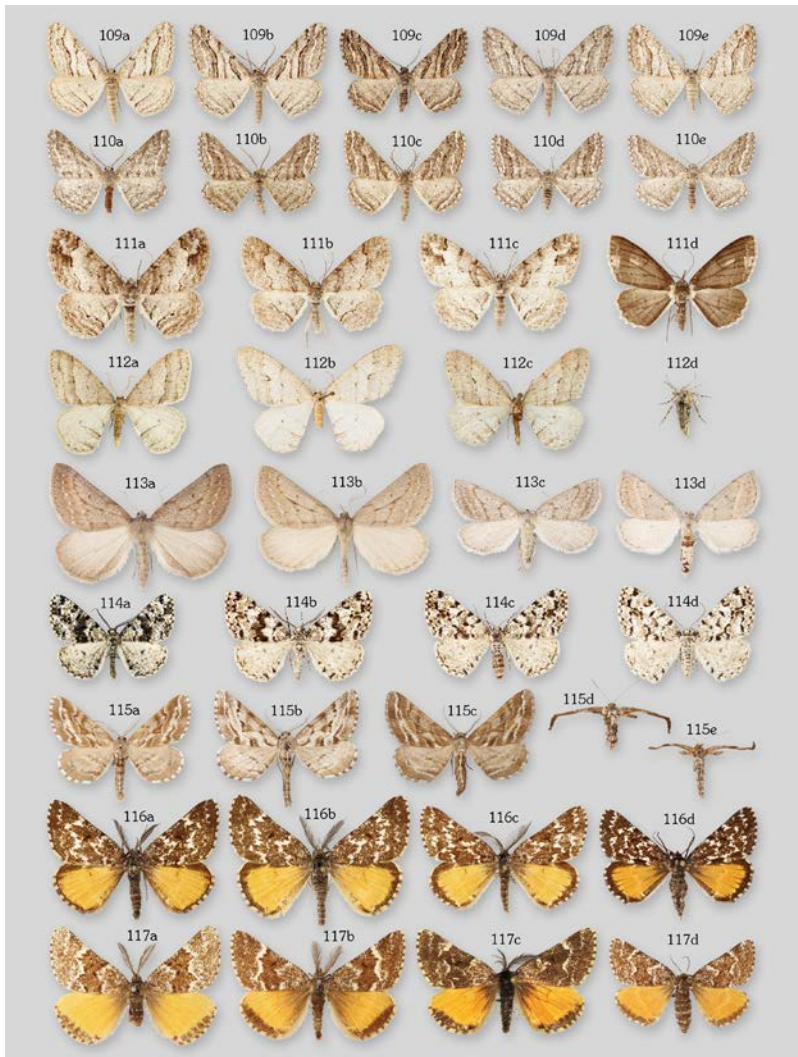
The book is aimed for professional researchers and amateurs as well interested in geometrid moths, and it is a must have for institutes, entomological societies, libraries and museums.

This volume presents the second and concluding part of the revision of the European taxa of the subfamily Ennominae, cover-

ing 181 species focusing on tribes Gnophini and Boarmiini. This volume presents also 21 additional species which have been recorded as new for the fauna of Europe since the publication of the volumes 1–5.

Volume 6 is expected to be the largest in the series with more than 900 pages. In summary,

over 140 taxonomic changes are proposed, including for instance descriptions of 4 new species and nearly 100 species- and subspecies-level synonymies. Several difficult genera such as *Charissa*, *Psodos*, *Sciadia*, *Nychiodes*, *Selidosema*, *Peribatodes* and *Tephronia* complex are covered.



As in previous volumes, all species are presented with their full name, reference to the original description, fully referenced junior synonyms, (potentially) unavailable names, description, distribution, phenology, biology including host plants, habitat, differential features from similar species, genetic data and remarks if needed. All 202 species are illustrated in 30 colour plates comprising a total of 1,116 specimens. Male and

female genitalia structure of all species are illustrated in 131 grey-scale photo plates. Distribution in Europe and adjacent countries is shown on maps for all species. Tens of text-figures illustrate and explain diagnostic characters and other morphological structures for difficult groups. Additionally, an updated systematic and annotated checklist of the Geometridae of Europe and adjacent areas is provided for volumes 1–6.

The authors hope to be able to present the book at the XXIth European congress of Lepidopterology, Campobasso, Italy, 3rd to 7th June 2019.

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