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A newsletter for geometrid specialists

FORUM HERBULOT NEWSLETTER

Editorial

This Newsletter is mainly intended to facilitate the early planning for those who plan to attend the Forum Herbulot 2017 in Chile, more detailed information on this meeting will follow in a subsequent newsletter in spring 2016. We encourage also to support Gunnar Brehm in his large-scale projects on geometrid phylogeny (see below).

First Invitation to Forum Herbulot IX

Luis Parra and Axel Hausmann would like to welcome you to FORUM HERBULOT IX (2017), in Chile on "The geometrids of southern South America: state of the art – Conservation and geometrid moths"

Date: 9-14 January 2017 (arrival 9 February, departure 14 February, conference 10-12 February).

Venue: University of Concepción, Chile. Facultad de Ciencias Biológicas, Casilla 160C.

Contact Person: Luis Parra, luiparra@gmail.com

More information on this meeting will follow in a subsequent newsletter in spring 2016, but for facilitating your early planning we present the preliminary program in next pages.



Catopoenissa dibapha (headline) and *Neorumia gigantea* (here), two geometrids of the Valdivian Forest, photo G. Foerster

The Forum Herbulot Newsletter appears irregularly one or several times per year and will be posted on the Forum Herbulot webpage www.herbulot.de. Old issues can be accessed there. Membership in the Forum Herbulot initiative is free.

For more information contact Axel Hausmann: Axel.Hausmann@zsm.mwn.de

Forum Herbulot 2017 – preliminary program



Universidad de Concepción, Concepción, Chile

Los geometrídeos del Cono sur de Sudamérica: Estado del Arte / Conservación y Geometrídeos

The geometrids of southern South-America: state of the art / Conservation and geometrid moths

Monday, January 9, 2017

Arrivals, Transfers

Registration in Facultad de Ciencias Naturales y Oceanográficas, Universidad de Concepción

Inauguration Ceremony (approx. 18:00), Welcome Cocktail

Tuesday, January 10, 2017

Morning plenary session 1: "The geometrids of southern South America: State of the Art"

Coffee break

Morning plenary session 2: "The geometrids of southern South America: State of the Art"

Lunch break

Afternoon plenary session: "Neotropical Lepidoptera"

Coffee break

Wednesday, January 11, 2017

Morning plenary session 1: "Conservation of geometrid moths, Nagoya Protocol"

Coffee break

Morning plenary session 2: "Phylogeny and taxonomy of Geometridae"

Lunch break

Visita Parque Hualpén, Comuna de Hualpén

Social event / Congress dinner

Thursday, January 12, 2017

Morning plenary session: "Varia"

Coffee break

Final discussions, Date and venue of FH 2019

Lunch break

15:00 Transfer to Termas de Chillán (Las Trancas, Cordillera de Los Andes)

Collecting

Friday, January 13, 2017

Collecting

Saturday, January 14, 2017

09:00 Transfers to Concepción

Final transfers and departures / start of private tours



Impressions from Parque Hualpén (Jan 11), near Concepción, sclerophyll forest



Impressions from Termas de Chillán/Las Trancas (conference-collecting tour; January 12-14), Cordillera de Los Andes (Nothofagus forest, near Chillán city)

Geometridae phylogeny projects – material needed

We have started in 2015 with new molecular phylogeny projects of the Geometridae. The current core team of the projects comprises Niklas Wahlberg, Pasi Sihvonen and Gunnar Brehm, but who successfully contributes with a significant amount of fresh material will be invited to join as co-author.

Our first project aims to better resolve the phylogeny of the Neotropical geometrids. Niklas Wahlberg (now in Lund/Sweden) has already analysed more than 100 genera and the results are exciting. Some species currently assigned to the Oenochrominae belong to the Sterrhinae, and many genera are paraphyletic assemblages. We already have material from Ecuador (most), Brazil, Peru, Venezuela, Costa Rica, and Chile of about 200 genera, but we would like to have more, including e.g. Mexico, the Caribbean, and some taxa from North America. The project will hopefully provide important insights in the evolution and historical biogeography of the Geometridae and basis for a stable classification in the global context.

Our second project aims to resolve the relationships of the small subfamilies Archiearinae, the Oenochrominae and the Desmobathrinae globally. We seek material from all

regions. We have some of the Neotropical, African, Asian and a good number of Australian genera, but still need many more. If you have such material, please contact Gunnar as well.

Further phylogeny projects will probably be launched in the next years, so fresh material from all regions and genera will be required sooner or later. Please keep this in mind when you collect. We are also interested in fresh material of the Neotropical and Nearctic Arctiinae and Hedylidae.

The material should not be older than ca. 5 years, better younger, ideally stored under dry conditions (or frozen). Ca. 10 genes will be sequenced. Those who have such material in their collections or freezers (or can collect it in 2016), please contact Gunnar, and we can discuss things in detail. If you have unidentified material, we can check photos of specimens and provide in most cases identifications at genus level. We can also send individual search lists for certain regions.

Please contact Gunnar Brehm:

gunnar.brehm@uni-jena.de



New Literature

Aistleitner, E. & A. Hausmann (2015): Zur Kenntnis der Spanner-Fauna der Kapverden (Cabo Verde) (Lepidoptera: Geometridae). *Nachr.Bl. bayer. Ent.* 64 (1/2): 62-63.

Budashkin, Yu.I. & V.V. Savchuk (2013): The third addition to the fauna and bionomy of the Crimean moths (Lepidoptera). In: *Optimization and Protection of Ecosystems*, Simferopol: TNU, 2013 (8): 47-60.

Corley, M.F.V. (2015): *Lepidoptera of Continental Portugal*, a fully revised list. – Berfords Information Press, U.K., 282 pp.

Covell, C.V.Jr. (2015): Three new species of *Idaea* Treitschke (Geometridae: Sterrhinae) from the southwestern United States and northern Mexico. – *J. Lep. Soc.* 69 (4): 317-325.

Fiumi, G., Flamigni, C., Zilli, A. & A. Hausmann (2014): Le specie del genere *Tephronia* nella regione sardo-corsa e descrizione di *Tephronia nuragica* n. sp. – *Quaderno di Studi e Notizie di Storia Naturale della Romagna* 38: 201-216.

Hausmann, A. (2013): Integrative revision of the African geometrid genus *Dargeia* Herbulot, 1977 (Lepidoptera, Geometridae, Geometrinae). – *Mitt. Münchn. Ent. Ges.* 103: 99-104

Hausmann, A., Godfray, H.C.J., Huemer, P., Mutanen, M., Rougerie, R., van Nieukerken, E.J., Ratnasingham, S. & P.D.N. Hebert (2013): Genetic patterns in European geometrid moths revealed by the Barcode Index Number (BIN) system. – *PLoS ONE* 10.1371/journal.pone.0084518.

Hausmann, A., Parisi, F. & A. Sciarretta (2014): The geometrid moths of Ethiopia I: tribes Pseudoterpnini and Comibaenini (Lepidoptera: Geometridae, Geometrinae). – *Zootaxa* 3768 (4): 460–468; <http://dx.doi.org/10.11646/zootaxa.3768.4.4>

- Hausmann, A., Parisi, F. & A. Sciarretta (2015): The Geometrinae of Ethiopia II: Tribus Hemistolini, genus *Prasinocyma* (Lepidoptera: Geometridae, Geometrinae). – Zootaxa (in print).
- Huemer, P. & T. Mayr (2015): Eine neue Unterart von *Colostygia kitschelti* (Rebel, 1934) mit Bemerkungen zum Artkonzept im *C. austriacaria*-Komplex (Lepidoptera: Geometridae). – Wiss. Jahrb. Tiroler Landesmuseen 2015: 66-79.
- Huemer, P., Friebe, J.G., Wiesmair, B. Mayr, T., Hiermann, U. & Siegel, C. (2015): Zur Verbreitung von *Perizoma juracolaria* (Lepidoptera, Geometridae, Larentiinae) – Erstnachweise aus Österreich, Liechtenstein und Italien. – inatura – Forschung online 25: 1-9.
- Jiang, N., Xue, D. & H. Han (2014): A new species of *Arbomia* Sato & Wang (Lepidoptera, Geometridae, Ennominae) from Guangxi, Southern China. – Zootaxa 3765 (1): 98-100.
- Jiang, N., Xue, D. & H. Han (2014): A review of *Luxiaria* Walker and its allied genus *Calletaera* Warren (Lepidoptera, Geometridae, Ennominae) from China. – Zootaxa 3856 (1): 73-99.
- Malkiewicz, A. (2012): The Geometrid Moths of Poland, Vol. 1. Ennominae (Lepidoptera, Geometridae). Polish Taxonomical Monographs Vol. 19, Biologica Silesiae, Polish Taxonomical Society, Wrocław, 270 pp.
- Matthews, D.L., Covell, C.V.Jr., Lane, K.M. & J.Y. Miller (2014): Larval hostplants of Geometridae (Lepidoptera) Collected by Dale H. Habeck in Florida. – BioOne, doi: <http://dx.doi.org/10.4289/0013-8797.116.1.36>.
- Rajaei, H., Greve, C., Letsch, H., Stüning, D., Wahlberg, N., Minet, J. & B. Misof (2015): Advances in Geometroidea phylogeny, with characterization of a new family based on *Pseudobiston pinratanai* (Lepidoptera, Glossata). – Zoologica Scripta 44 (4): 418-436, DOI: 10.1111/zsc.12108, 22 pp.
- Redondo, V., Gastón, J. & J.C. Vicente (2015): Las Mariposas de España Peninsular, segunda edición ampliada y corregida. – Prames, Zaragoza, 463 pp.
- Sato, R. (2014): Six new species of the genus *Ophthalmitis* (Geometridae, Ennominae) from Southeast Asia and South India, with taxonomic notes on the related species. Tinea 22 (5): 318-330.
- Schaarschmidt, M. (2014): Die Gattung *Eubordeta* Rothschild, 1904 (Lepidoptera, Geometridae, Ennominae). – Neue Ent. Nachrichten 69: 215-237.
- Schmidt, O. (2014): Comparison of the structure and musculature of male Terminalia in the tribe Cidariini Duponchel (Lepidoptera: Geometridae: Larentiinae) once again throws into doubt a sister relationship with the Xanthorhoini. – 3856 (3): 399-418.
- Sihvonen, P., Staude, H. & M. Mutanen (2015): Systematic position of the enigmatic African cycad moths: an integrative approach to a nearly century old problem (Lepidoptera: Geometridae, Diptychini). Syst. Entomology 2015: doi: 10.1111/syen.12125
- Sircoulomb, G. (2013): Les Geometridae du Parc national de Dzanga Ndoki (R.C.A.): inventaire et description d'une nouvelle espèce du genre *Microlyces* Herbulot, 1981 (Lepidoptera). – Entomologia Africana 18 (1): 29-36.
- Skou, P. & P. Sihvonen (2015): Ennominae I. In A. Hausmann (ed.): The Geometrid Moths of Europe, Vol. 5, 750 pp, Brill.
- Sommerer, M., Stüning, D. & C. Tautel (2015): *Lophophelma tanatoraja* spec. nov., a new Geometrid moth from Sulawesi near *Lophophelma luteipes* Felder & Rogenhofer, 1875 (Geometridae, Geometrinae). – Tinea 23 (2): 108-114.
- Tautel, C. (2014): Deux nouveaux *Tanaorhinus* pour la Wallacea (Lepidoptera, Geometridae, Geometrinae). – Antenor 1 (2): 191-198.
- Tautel, C. (2014): Nouvelles espèces des Philippines pour les genres *Problepsis*, *Celenna*, *Craspedosis* et *Cleora* (Lepidoptera, Geometridae). – Bull. Soc. Ent. France 119 (4): 511-520.
- Tautel, C. (2015): Nouveaux Geometridae des Philippines des genres *Comostola*, *Ornithospila* et *Maxates* (Lepidoptera, Geometridae, Geometrinae). – Antenor 2 (1): 122-134.



As mentioned in earlier volumes, we encourage everybody to communicate to us any new and important references for this section. Please use the exact formal criteria for citations as presented here, since we have not the resources to do large-scale editing.