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TORTS

Newsletter of the
Troop of Reputed Tortricid Systematists

MODIFICATIONS TO TODD GILLIGAN'S WEBSITE - TORTRICID.NET

The following message was received from Todd Gilligan regarding his website - Tortricid.net.

"Just a quick note to mention that I have finished a complete redesign of my website! The new site has been uploaded and should be fully functional. You can still access it using either of these URLs: http://www.tortricidae.com or http://www.torticid.net. Some of the new features include a complete redesign including new graphics, menus, fonts, etc.; the ability to search the photo database for any genus/species or wildcard text; the ability to display a complete list of thumbnail photos from the database; and new type specimen photos, including the complete type collection at ANIC (finally!)

Let me know if you have any comments/questions/changes you would like to see. Thank you for your time!"

If you have not yet visited Todd's updated website, please do so - I'm sure you will be impressed. It is an outstanding example of the type of information and images that can be made available globally on the web. Also on the site is a review of our initiative to develop a resource for molecular analyses.

TORTS NEWSLETTER DISTRIBUTED AS PDF

Since 2005 the newsletter has been distributed primarily via e-mail as a PDF. Several members still receive a hard-copy via regular mail owing to problems receiving attachments. If you have been receiving a hard copy and prefer to receive a PDF, please let me know. Alternatively, if you have been receiving a PDF and would prefer a hard copy, let me know. Please check your e-mail address in this issue for accuracy. If you have corrections, please provide them to me at jbrown@sel.barc.usda.gov.

BOOK REVIEW

The following book review will appear in the spring issue of the Proceedings of the Entomological Society of Washington. However, I am so eager to let everyone know about the book and to encourage everyone to order a copy, that I am providing this sneak preview here.

Olethreutinae Moths of Australia, Monographs on Australian Lepidoptera, Volume 10, by Marianne Horak, with contributions by Furumi Komai. 528 pages, 984 black-and-white photographs; 7" x 10"; ISBN 0-643-09093-2. AU $160.00 (ca. $120.00 US)

hardback. CSIRO Publishing. Publication date: July 2006.

For over two decades, Marianne Horak has been one of the world's leading experts in tortricid systematics, with seminal contributions to van der Geest and Evenhuis' *Tortricid Pests, their Biology, Natural Enemies and Control* (Horak 1991, Horak and Brown 1991), to Neilsen, Edwards, and Rangsi's *Checklist of Australian Lepidoptera* (Horak et al. 1996), and to Kristensen's *Handbook of Zoology* (Horak 1998). Her systematic work is thorough, her morphological investigations are meticulous, and her knowledge of the world fauna is unparalleled. Her recently published monograph on Australian Olethreutinae, the subject of this book review, is the crowning achievement in a highly productive career focused primarily on Tortricidae.

Most of us tortricid systematists impatiently apply our craft to taxa and regions of various sizes, inevitably leaving a trail of papers, each of which addresses a different species group, genus, country, or geographic region, but rarely fully treating an entire fauna or larger taxon in a single tome. Horak has shown the patience and perseverance to complete a thorough taxonomic study of the entire subfamily Olethreutinae for the entire continent of Australia. In this volume she reviews the 90 olethreutine genera and 249 described species (and provides comments on an additional 200 undescribed species) occurring in Australia. Because much of the fauna is derived from that of the Oriental Region, biogeographically and phylogenetically, the treatment has significant impact on the classification of the Olethreutinae of a geographic area much broader than Australia alone. Each genus is described in detail, diagnosed and defined by synapomorphies, and discussed in the context of biogeography and phylogenetic relationships; in addition, all the constituent species of the Australian fauna are listed.

The text of this monograph is presented in 8 major sections, not including the standard front material (i.e., abstract, introduction, materials and methods, and acknowledgments): 1. Phylogeny of the Olethreutinae, 2. Morphology, 3. Biology, 4. Diversity and Distribution, 5. Australian Olethreutinae Genera, 6. References, 7. Appendices, and 8. Index.

The first section, Phylogeny of the Olethreutinae, presents a detailed list of 126 morphological characters for 73 of the included genera plus two outgroups, along with the results of a cladistic analysis using WinClada. As Horak concludes, the results portrayed in the consensus tree should be viewed as preliminary and somewhat inconclusive since several widely accepted groupings based on synapomorphies are not recovered in the analysis. It is likely that additional characters are required to more accurately identify relationships among the genera. Nonetheless, the data matrix represents an important first step in the development of a phylogeny for the Australian and Oriental members of the subfamily upon which a stable classification can begin to be built.

The Morphology section is thorough and rich in details. The 20 pages of wing venation provide an outstanding visual summary of the variation in shape, venation, and male secondary structures found in the Australian and

Oriental Olethreutinae. The Biology section presents a brief overview of tortricid life histories and larval food plants. And the Diversity and Distribution section likewise presents a brief analysis of different olethreutine tribes within Australia and comparisons with other well-documented faunas.

Section 5, Australian Olethreutinae Genera, is the meat of the monograph, with over 400 pages of diagnoses, descriptions, and illustrations of the included taxa. For each tribe there are "status remarks," "evidence for monophyly," "diagnosis," "distribution," "biology," and "remarks." The text in this section reveals the depth of Horak's knowledge of the fauna. Included are the kinds of details and factoids that experts accumulate over a career of working on a taxon but seldom find the right medium in which to convey them. Of particular interest to me are the myriad host-plant records based on Horak's personal experience, the card file at CSIRO (compiled primarily by the late I. F. B. Common), and the work of her colleagues in Australia and elsewhere. In this section she describes 12 new genera and 16 new species along with proposing 121 new combinations (41 for the Australian fauna and 80 for non-Australian species). For the tribe Grapholitini, Horak enlisted the assistance of the highly regarded Japanese tortricid taxonomist Furumi Komai, and the results are outstanding.

The final three sections, References, Appendices (morphological character matrix and host plants by tortricid genus), and Index, are thorough as one would expect in a professional taxonomic treatment. While the last two are listed in the Table of Contents as sections "7" and "8," respectively, their title pages in the text lack the numbering system used for other major sections - an extremely trivial format oversight that does not detract from the presentation.

Like other CSIRO publications, the physical aspects of the book are very good - strong binding, high quality paper, and no wasted space. Fonts are highly legible, headings are clear and well defined, and illustrations are nicely organized, distributed throughout the text rather than clustered at the back or middle.

This book is in a vein similar to Diakonoff's (1973) classic South Asiatic Olethreutini, and it is destined to become the new reference for all systematic work on Olethreutinae of Indo-Australia and southern Asia. But it has broader geographic implications as well, because many of the treated genera are distributed on various continents around the globe: e.g., *Megalota*, with its Oriental-southern continental distribution; *Crocidosema*, with its nearly cosmopolitan distribution; and *Spilonota*, with its Palaearctic-Oriental-Australian range. This book is undoubtedly one of the most significant and original contributions to tortricid systematics to appear in the last few decades, and its impact likely will be felt by generations of tortricid systematists. Anyone working on tortricid moths at the global level in any context (e.g., biogeography, biodiversity, taxonomy, host-plants, agriculture) absolutely will have to consult this volume.

Horak is to be congratulated for her tenacity in finishing this overwhelming project and creating a masterpiece in the process. She has set the bar high for her fellow tortricid taxonomists and Lepidoptera systematists in general.

Literature Cited

Diakonoff, A. 1973. The South Asiatic Olethreutini (Lepidoptera: Tortricidae). Zoologische Monographieen van het Rijksmuseum van Natuurlijke Historie 1. 699 pp.

Horak, M. 1991. 1.1 Morphology, pp. 1-22. *In* van der Geest, L. P. S. & H. H. Evenhuis, eds., Tortricid Pests, Their Biology, Natural Enemies and Control. Elsevier Science Publishers B. V., Amsterdam.

_____. 1998. Tortricoidea, pp. 199-215. *In* Kristensen, N., ed., Lepidoptera, Moths and Butterflies. Volume 1: Evolution, Systematics, and Biogeography. Handbook of Zoology 4 (35), Arthropoda: Insecta. Walter de Gruyter, Berlin & New York.

Horak, M. and R. L. Brown. 1991. 1.2 Taxonomy and phylogeny, pp. 23-48. *In* van der Geest, L. P. S. & H. H. Evenhuis, eds., Tortricid Pests, Their Biology, Natural Enemies and Control. Elsevier Science Publishers B. V., Amsterdam.

Horak, M., I. F. B. Common & F. Komai. 1996. Tortricidae, pp. 123-136. *In* Neilsen, E. S., E. D. Edwards, and T. V. Rangsi, eds. Checklist of Australian Lepidoptera. Monographs on Australian Lepidoptera 4. CSIRO, Canberra, Australia.

In the USA and Canada, the book can be ordered from Antipodes Books & Beyond Ltd.; phone: (301) 602-9519; also, you can google "Antipodes Books" and query for "Horak."

UPDATES TO THE WORLD CATALOGUE OF INSECTS, VOLUME 5, TORTRICIDAE (LEPIDOPTERA)

In an effort to stay up-to-date with current taxonomic treatments in Tortricidae and to continue to improve our developing electronic catalog of the family, I provide a list of new species, new combinations, and new synonymies proposed prior to 2006, mostly in 2005. A bibliography also is provided in support of the changes. If you are aware of other additions, taxonomic changes, and/or corrections to the catalog, please bring them to my attention. Thanks much for your continued support.

SPECIES AND GENERA OF TORTRICIDAE DESCRIBED PRIOR TO 2006 NOT INCLUDED IN TORTRICIDAE CATALOGUE

Accra

amanica Razowski, 2005 (*Accra*), *SHILAP Revta. Lepid*. 33: 425. TL: Tanzania (Amani). Holotype (♀): BMNH.

kassaicola Razowski, 2005 (*Accra*), *SHILAP Revta. Lepid*. 33: 425. TL: Congo F. St. (Kassai district). Holotype (♂): BMNH.

kikuayana Razowski, 2005 (*Accra*), *SHILAP Revta. Lepid*. 33: 426. TL: Kenya [East Africa] (Kikuyu Ibea, Escarpment). Holotype (♀): BMNH.

Acleris

rubi Razowski, 2005 (*Acleris*), *Polskie Pismo Entomol*. 74: 501. TL: South Africa (Transkei, Langeni Forest). Holotype (♂): TM (Cape Town).

ruwenzorica Razowski, 2005 (*Acleris*), *Polskie Pismo Entomol*. 74: 501. TL: Uganda/Congo (Ruwenzori Range). Holotype (♂): TM (Cape Town).

Algoforma

Algoforma Razowski, 2005, *Polskie Pismo Entomol*. 74: 497. Type species: *Teras Acleris algoana* Felder & Rogenhofer, 1875. [Tortricinae: Tortricini]

paralgoana Razowski, 2005 (*Algoforma*), *Polskie Pismo Entomol*. 74: 498. TL: South Africa (Kubusia Forest, Cape). Holotype (♀): TM (Cape Town).

Anathamna

neospermatophaga Pooni & Rose, 2005 (*Anathamna*), *Entomon* 30: 238. TL: India (Himachal Pradesh, Dist. Solan, Nauni). Holotype (♂): University of Horticulture and Forestry, India.

Ancylis

apicipicta Oku, 2005 (*Ancylis*), *Tinea* 18 (supplement 3): 104. TL: Japan (Honshu, Iwate Prefecture, Kadoma 3 gôme, Mt. Hayachine, Kawai Village). Holotype (♂): EIHU.

limosa Oku, 2005 (*Ancylis*), *Tinea* 18 (supplement 3): 103. TL: Japan (Honshu, Iwate Prefecture, Hebizuka, Tamayama Village). Holotype (♂): EIHU.

youmiae Byun & Yan, 2005 (*Ancylis*), *Zootaxa* 1103: 18. TL: China (Heilongjiang, Laoyeling). Holotype (♂): NFUH.

Cochylimorpha

kohibabae Razowski, 2005 (*Cochylimorpha*), *Polskie Pismo Entomol*. 74: 432. TL: Afghanistan (Koh-i-Baba, S Seite, Shah-tu Pass). Holotype (♂): ISEZ.

razowskiana Kuznetzov, 2005 (*Cochylimorpha*), *Zoosystematica Rossica* 14(1): 178. [replacement name for *pallens* Kuznetzov, 1966]

Dracontogena

bernardi Karisch, 2005 (*Dracontogena*), *Linzer biol. Beitr*. 37: 463. TL: Katana (W. Kivu). Holotype (♂): BMNH.

hoppei Karisch, 2005 (*Dracontogena*), *Linzer biol. Beitr*. 37: 460. TL: Guinea Ecuatorial (Isla de Bioco, Moca Malabo). Holotype (♂): MNVD.

lucki Karisch, 2005 (*Dracontogena*), *Linzer biol. Beitr*. 37: 463. TL: Kenya (Mugaga). Holotype (♀): BMNH.

continentalis Karisch, 2005 (*Dracontogena niphadonta* ssp.), *Linzer biol. Beitr*. 37: 460. TL: Zambia (Mbala, Locust Control Center).

Holotype (♀): BMNH.

schnirchi Karisch, 2005 (*Dracontogena*), *Linzer biol. Beitr*. 37: 464. TL: Zaire (Prov. Equateur, Kalamba, 55 km S Mbandaka, 3 km E Ort). Holotype (♀): Karisch Collection.

Epinotia

tsurugisana Oku, 2005 (*Epinotia*), *Tinea* 18 (supplement 3): 108. TL: Japan (Shikoku, Tokushima Prefecture, Mt. Tsurugisan). Holotype (♂): EIHU.

autumnalis Oku, 2005 (*Epinotia*), *Tinea* 18 (supplement 3): 110. TL: Japan (Honshu, Iwate Prefecture, Mt. Sodeyama, Kuzumaki Town). Holotype (♂): EIHU.

Eucoenogenes

bicucullus Pinkaew, 2005 (*Eucoenogenes*), *Proc. Ent. Soc. Washington* 107: 873. TL: Thailand (Kanchanaburi Province, Thong Pha Phum National Park). Holotype (♂): USNM.

elongata Zhang & Li, 2005 (*Eucoenogenes*), *Entomotaxonomia* 27: 126. TL: China (Yunnan Province, Weishan County). Holotype (♂): MUTC.

vaneeae Pinkaew, 2005 (*Eucoenogenes*), *Proc. Ent. Soc. Washington* 107: 876. TL: Thailand (Kanchanaburi Province, Thong Pha Phum National Park). Holotype (♂): USNM.

wuyiensis Zhang & Li, 2005 (*Eucoenogenes*), *Entomotaxonomia* 27: 127. TL: China (Fujian Province, Mt. Wuyi). Holotype (♂): MUTC.

Eucosma

aurilineana Ferris, 2005 (*Eucosma*), *Zootaxa* 806: 2. TL: USA (Wyoming, Albany Co., 1.6 km SE Laramie). Holotype (♂): USNM.

nordini Wright, 2005 (*Eucosma*), *J. Lepid. Soc*. 59: 129. TL: USA (Wyoming, Albany Co., Medicine Bow NF, 11.5 mi SE Laramie, Jct. Forest Roads 707 and 705). Holotype (♂): USNM.

piperata Wright, 2005 (*Eucosma*), *J. Lepid. Soc*. 59: 129. TL: USA (Utah, Vineyard). Holotype (♂): USNM.

taosana Wright, 2005 (*Eucosma*), *J. Lepid. Soc*. 59: 130. TL: USA (New Mexico, Taos Co., S side U.S. 64, 10 mi SE Tres Piedras). Holotype (♂): USNM.

Eudemis

brevisetosa Oku, 2005 (*Eudemis*), *Tinea* 18 (supplement 3): 96. TL: Japan (Honshu, Iwate Prefecture, Kuriyagawa, Morioka). Holotype (♂): EIHU.

Eugnosta

lukaszi Razowski, 2005 (*Eugnosta*), *Polskie Pismo Entomol*. 74: 505. TL: South Africa (Royal Natal National Park, Tenedele Camp). Holotype (♂): TM (Cape Town).

niveicaput Razowski, 2005 (*Eugnosta*), *Polskie Pismo Entomol*. 74: 506. TL: South Africa (Springbok). Holotype (♀): TM (Cape Town).

parapamirana Razowski, 2005 (*Eugnosta*), *Polskie Pismo Entomol*. 74: 433. TL: Afghanistan (Koh-i-Baba, N Seite, Band-i-Amir). Holotype (♂): ISEZ.

parmisella Razowski, 2005 (*Eugnosta*), *Polskie Pismo Entomol*. 74: 507. TL: South Africa (Cape Province, Kenton-on-Sea). Holotype (♂): TM (Cape Town).

Eupoecilia

yubariana Razowski, 2005 (*Eupoecilia*), *Polskie Pismo Entomol*. 74: 433. TL: Japan (Hokkaido, Yubari-d). Holotype (♂): ISEZ.

Exoletuncus

angulatus Razowski & Pelz, 2005 (*Exoletuncus*), *SHILAP Revta. Lepid.* 33: 331. TL: Ecuador (Napo Province, 12 km SSE Cosanga). Holotype (♂): SMFL.

aquilus Razowski & Pelz, 2005 (*Exoletuncus*), *SHILAP Revta. Lepid.* 33: 332. TL: Ecuador (Tungurahua Province, 20 km E Baños, San Francisco). Holotype (♂): SMFL.

canescens Razowski & Pelz, 2005 (*Exoletuncus*), *SHILAP Revta. Lepid.* 33: 331. TL: Ecuador (Napo Province, 10 km SSE Cosanga). Holotype (♂): SMFL.

guacamayosensis Razowski & Pelz, 2005 (*Exoletuncus*), *SHILAP Revta. Lepid.* 33: 330. TL: Ecuador (Napo Province, 15 km SE Cosanga, Cocodrilo). Holotype (♂): SMFL.

paraquilus Razowski & Pelz, 2005 (*Exoletuncus*), *SHILAP Revta. Lepid.* 33: 332. TL: Ecuador (Morona-Santiago Province, Macas, 5 km S Alisha). Holotype (♂): SMFL.

pleregraptus Razowski & Pelz, 2005 (*Exoletuncus*), *SHILAP Revta. Lepid.* 33: 329. TL: Ecuador (Pichincha Province, 1 km W Papallacta Pass). Holotype (♂): SMFL.

similis Razowski & Pelz, 2005 (*Exoletuncus*), *SHILAP Revta. Lepid*. 33: 330. TL: Ecuador (Zamora-Chinchipe Province, 22 km E Loja, P.N. Podocarpus, San Francisco Ranger Station). Holotype (♂): SMFL.

Gorytvesica

cosangana Razowski & Pelz, 2005 (*Gorytvesica*), *Acta Zool. Cracov*. 48 (B): 59. TL: Ecuador (Napo Province, 12 km SSE Cosanga). Holotype (♂): SMFL.

ebenoptera Razowski & Pelz, 2005 (*Gorytvesica*), *Acta Zool. Cracov*. 48 (B): 60. TL: Ecuador (Morona-Santiago Province, Macas, Proano, 5 km S Alishi). Holotype (♂): SMFL.

fustigera Razowski & Pelz, 2005 (*Gorytvesica*), *Acta Zool. Cracov*. 48 (B): 63. TL: Ecuador (Napo Province, 10 km SSE Cosanga). Holotype (♂): SMFL.

homaema Razowski & Pelz, 2005 (*Gorytvesica*), *Acta Zool. Cracov*. 48 (B): 63. TL: Ecuador (Napo Province, 10 km SSE Cosanga). Holotype (♂): SMFL.

homora Razowski & Pelz, 2005 (*Gorytvesica*), *Acta Zool. Cracov*. 48 (B): 63. TL: Ecuador

(Napo Province, 12 km SSE Cosanga). Holotype (♂): SMFL.

medeter Razowski & Pelz, 2005 (*Gorytvesica*), *Acta Zool. Cracov*. 48 (B): 61. TL: Ecuador (Pichincha Province, 7 km NW Mindo, Sachatamia). Holotype (♂): SMFL.

paraleipa Razowski & Pelz, 2005 (*Gorytvesica*), *Acta Zool. Cracov*. 48 (B): 60. TL: Ecuador (Napo Province, 12 km SSE Cosanga). Holotype (♀): SMFL.

sachatamiae Razowski & Pelz, 2005 (*Gorytvesica*), *Acta Zool. Cracov*. 48 (B): 64. TL: Ecuador (Pichincha Province, 7 km NW Mindo, Sachatamia). Holotype (♂): SMFL.

sychnopina Razowski & Pelz, 2005 (*Gorytvesica*), *Acta Zool. Cracov*. 48 (B): 62. TL: Ecuador (Napo Province, 15 km SE Cosanga, Cocodrilo). Holotype (♂): SMFL

tenera Razowski & Pelz, 2005 (*Gorytvesica*), *Acta Zool. Cracov*. 48 (B): 59. TL: Ecuador (Napo Province, 10 km SSE Cosanga). Holotype (♂): SMFL

Gypsonoma

rivulana Oku, 2005 (*Gysonoma*), *Tinea* 18 (supplement 3): 107. TL: Japan (Honshu, Iwate Prefecture, Aburaden, Yuzawa, Morioka). Holotype (♂): EIHU.

Hedya

simulans Oku, 2005 (*Hedya*), *Tinea* 18 (supplement 3): 101. TL: Japan (Hokkaido, Ishikari Prefecture, Mt. Moiwa, Sopporo). Holotype (♂): EIHU.

Heppnerographa

bathychtra Razowski & Pelz, 2005 (*Heppnerographa*), *Entomol. Zeit.* 115: 170. TL: Ecuador (Tungurahua Province, 20 km E Baños, San Francisco). Holotype (♂): SMFM.

chrysotona Razowski & Pelz, 2005 (*Heppnerographa*), *Entomol. Zeit*. 115: 169. TL: Ecuador (Napo Province, 10 km SSE Cosanga). Holotype (♂): SMFM.

grapholithana Razowski & Pelz, 2005 (*Heppnerographa*), *Entomol. Zeit*. 115: 170. TL: Ecuador (Morona-Santiago Province, Macas, Proano-Inapula, CREA-Domono). Holotype (♂): SMFM.

longibarba Razowski & Pelz, 2005 (*Heppnerographa*), *Entomol. Zeit.* 115: 170. TL: Ecuador (Morona-Santiago Province, Macas, Proano-Alshi, 5 km S Alshi). Holotype (♀): SMFM.

monotana Razowski & Pelz, 2005 (*Heppnerographa*), *Entomol. Zeit*. 115: 166. TL: Ecuador (Morona-Santiago Province, Macas, Proano-Alshi, 5 km S Alshi). Holotype (♂): SMFM.

podocarpi Razowski & Pelz, 2005 (*Heppnerographa*), *Entomol. Zeit*. 115: 166. TL: Ecuador (Zamora-Chinchipe Province, 22 km E Loja, P. N. Podocarpus, San Francisco Ranger Stn.). Holotype (♂): SMFM.

usitica Razowski & Pelz, 2005 (*Heppnerographa*), *Entomol. Zeit*. 115: 166. TL: Ecuador (Loja Province, 10 km SE Loja, P. N. Podocarpus, Cajanuma Ranger Stn.). Holotype (♂): SMFM.

Lepteucosma

torreyae Wu, 2005 (*Lepteucosma*), in Wu and Chen, *Acta Zool. Cracov.* 49(B): 80. TL: China (Zhejiang Province, Zhuji County, Zhaojiazhen). Holotype (♂): IZAS.

Lobogenesis

banosia Razowski, 2005 (*Lobogenesis*), *Polskie Pismo Entomol*. 74: 441. TL: Ecuador (Tungurahua Province, 20 km E Baños, San Francisco). Holotype (♂): SMFL.

calamistrana Razowski, 2005 (*Lobogenesis*), *Polskie Pismo Entomol*. 74: 442. TL: Ecuador (Napo Province, 10 km S Cosanga). Holotype (♂): SMFL.

corymbovalva Razowski, 2005 (*Lobogenesis*), *Polskie Pismo Entomol*. 74: 449. TL: Ecuador (Azuy Province, P. N. Cajas, Laguna Llaviuco). Holotype (♂): SMFL.

eretmognathos Razowski, 2005 (*Lobogenesis*), *Polskie Pismo Entomol*. 74: 452 . TL: Ecuador (Pichincha Province, 7 km NW Mindo, Sachatamia). Holotype (♂): SMFL.

inserata Razowski, 2005 (*Lobogenesis*), *Polskie Pismo Entomol*. 74: 446. TL: Ecuador (Napo Province, 1 km W Papallacta). Holotype (♂): SMFL.

pallidcypas Razowski, 2005 (*Lobogenesis*), *Polskie Pismo Entomol*. 74: 450. TL: Ecuador (Napo Province, 15 km S Cosango, Cocodrilo). Holotype (♂): SMFL.

pectinata Razowski, 2005 (*Lobogenesis*), *Polskie Pismo Entomol*. 74: 444. TL: Ecuador (Napo Province, 15 km S Cosango, Cocodrilo). Holotype (♂): SMFL.

phoxapex Razowski, 2005 (*Lobogenesis*), *Polskie Pismo Entomol*. 74: 449 . TL: Ecuador (Napo Province, 15 km S Cosango, Cocodrilo). Holotype (♀): SMFL.

polyspina Razowski, 2005 (*Lobogenesis*), *Polskie Pismo Entomol*. 74: 443. TL: Ecuador (Morona-Santiago Province, Macas, Proano-Inapula, CREA-Domono). Holotype (♂): SMFL.

sthernarcosta Razowski, 2005 (*Lobogenesis*), *Polskie Pismo Entomol*. 74: 451 . TL: Ecuador (Napo Province, 15 km S Cosango, Cocodrilo). Holotype (♂): SMFL.

Macrochlidia

cajanumana Razowski & Pelz, 2005 (*Macrochlidia*), *Entomol. Zeit*. 115: 165. TL: Ecuador (Loja Province, 10 km SE Loja, P. N. Podocarpus, Cajanuma Ranger Stn.). Holotype (♂): SMFM.

Multiquaestia

Multiquaestia Karisch, 2005, *Lambillonea* 105: 500. Type species: *Multiquaestia albimaculana* Karisch [Olethreutinae: Grapholitini]

albimaculana Karisch, 2005 (*Multiquaestia*), *Lambillonea* 105: 502. TL: Angola (Tundavala, 8-10 mls. NW Sa da Bandeira). Holotype (♀): BMNH.

Neocalyptis

brinchangi Razowski, 2005 (*Neocalyptis*), *Polskie Pismo Entomol.* 74: 139. TL: West Malaysia (Cameron Highlands, Gunong Brinchang). Holotype (♂): BMNH.

kimbaliana Razowski, 2005 (*Neocalyptis*), *Polskie Pismo Entomol.* 74: 144. TL: Sabah (Kota Kinabalu). Holotype (♂): BMNH.

malaysiana Razowski, 2005 (*Neocalyptis*), *Polskie Pismo Entomol.* 74: 142. TL: West Malaysia (W. Pahang, Genting Tea Estate). Holotype (♂): BMNH

sabahia Razowski, 2005 (*Neocalyptis*), *Polskie Pismo Entomol.* 74: 140. TL: Sabah (Mt. Kinabalu). Holotype (♂): BMNH.

utarica Razowski, 2005 (*Neocalyptis*), *Polskie Pismo Entomol.* 74: 141. TL: Sulewesi (Utara, Clark Camp). Holotype (♂): BMNH.

Oregocerata

triangulana Razowski & Brown, 2005 (*Oregocerata*), *Proc. Ent. Soc. Washington* 107: 906. TL: Colombia (Cauca, Páramo de Parace, Lake San Rafael). Holotype (♂): USNM.

submontana Razowski & Brown, 2005 (*Oregocerata*), *Proc. Ent. Soc. Washington* 107: 908. TL: Venezuela (Lara, Yacumba National Park, 13 km SE Sanare). Holotype (♂): USNM.

caucana Razowski & Brown, 2005 (*Oregocerata*), *Proc. Ent. Soc. Washington* 107: 909. TL: Colombia (Cauca, Páramo de Parace, Lake San Rafael). Holotype (♂): USNM.

quadrifurcata Razowski & Brown, 2005 (*Oregocerata*), *Proc. Ent. Soc. Washington* 107: 911. TL: Colombia (Cauca, Páramo de Parace, Lake San Rafael). Holotype (♂): USNM.

Panegyra

cerussochlaeena Razowski, 2005 (*Panegyra*), *SHILAP Revta. Lepid*. 33: 428. TL: Gold Coast [Ghana] (Aburi). Holotype (♂): BMNH.

metria Razowski, 2005 (*Panegyra*), *SHILAP Revta. Lepid*. 33: 427. TL: Gold Coast [Ghana] (Aburi). Holotype (♂): BMNH.

micans Razowski, 2005 (*Panegyra*), *SHILAP Revta. Lepid*. 33: 427. TL: Kenya [East Africa] (Kikuyu, Ibea, Escarpment). Holotype (♂): BMNH.

stenovalva Razowski, 2005 (*Panegyra*), *SHILAP Revta. Lepid*. 33: 427. TL: Madagascar (Masoala, Andranobe B. Camp). Holotype (♂): BMNH.

Paraccra

PARACCRA Razowski, 2005, *SHILAP Revta. Lepid*. 33: 426. Type species: *Paraccra mimesa* Razowski, 2005. [Tortricinae: Tortricini]

mimesa Razowski, 2005 (*Paraccra*), *SHILAP*

Revta. Lepid. 33: 426. TL: Tanzania (Amani). Holotype (♂): BMNH.

Pelatea

verucha Nedoshivina & Zolotuhin, 2005 (*Pelatea klugiana* ssp.), *Nota Lepid*. 28: 3. TL: Russia (Middle Volga Region, 140 km S Iljanovsk, vill. Srednikovo outskirts, Mt. Atmala). Holotype (♂): ZISP (St. Petersburg).

Pelochrista

powelli Wright, 2005 (*Pelochrista*), *J. Lepid. Soc*. 59: 132. TL: USA (Idaho, Oneida Co., Curlew NG, 4 mi ENE Holbrook, jct. Forest Roads 056 and 057). Holotype (♂): USNM.

Phiaris

komaii Bae, 2005 (*Phiaris*), *Tinea* 18 (supplement 3): 127. TL: Japan (Honshu, Osaka Prefecture, Ushitakisan, Kishiwada). Holotype (♂): OPU.

Phtheochroa

natalica Razowski, 2005 (*Phtheochroa*), *Polskie Pismo Entomol*. 74: 502. TL: South Africa (Natal, Karkloof). Holotype (♂): TM (Cape Town).

Platyhomonopsis

Platyhomonopsis Wang & Li, 2005, *Entomol. Fenn*. 16: 263. Type species: *Platyhomonopsis dentata* Wang & Li, 2005. [Tortricinae: Archipini]

dentata Wang & Li, 2005 (*Platyhomonopsis*), *Entomol. Fenn*. 16: 264. TL: China (Guizhou Province, Jiangkou). Holotype (♂): NUTC.

Plinthograptis

ebogana Razowski, 2005 (*Plinthograptis*), *SHILAP Revta. Lepid*. 33: 424. TL: Cameroon (Aoa Ebogo). Holotype (♀): BMNH.

Pseudohedya

dentata Oku, 2005 (*Pseudohedya*), *Tinea* 18 (supplement 3): 100. TL: Japan (Honshu, Iwate Prefecture, Atei-sensô, Niisato Village). Holotype (♂): EIHU.

Rhopalovalva

moriutii Oku, 2005 (*Rhopalovalva*), *Tinea* 18 (supplement 3): 106. TL: Japan (Hinshu, Shizuoka Prefecture, Warabo, Nakaizu Town, Izu-peninsula). Holotype (♂): EIHU.

Rhopaltriplasia

rotundipetalina Yu & Li, 2005 (*Rhopaltriplasia*), *Zootaxa* 1082: 32. TL: China (Mt. Wuyi, Fujian Province). Holotype (♂): NUTC.

spinalis Yu & Li, 2005 (*Rhopaltriplasia*), *Zootaxa* 1082: 33. TL: China (Mt. Hualong, Shaanxi Province). Holotype (♂): NUTC.

Rhopobota

furcata Zhang, Li & Wang, 2005 (*Rhopobota*), *Entomol. Fenn*. 16: 275. TL: China (Gansu Province, Wenxian). Holotype (♂): NCTC.

orbiculata Zhang, Li & Wang, 2005 (*Rhopobota*), *Entomol. Fenn*. 16: 276. TL: China (Gansu Province, Kangxian). Holotype (♂): NCTC.

fanjingensis Zhang, Li & Wang, 2005 (*Rhopobota*), *Entomol. Fenn*. 16: 276. TL: China (Guizhou Province, Mt. Fanjing). Holotype (♂): NCTC.

floccoa Zhang, Li & Wang, 2005 (*Rhopobota*), *Entomol. Fenn*. 16: 278. TL: China (Hunan Province, Sangzhi). Holotype (♂): NCTC.

bucera Zhang, Li & Wang, 2005 (*Rhopobota*), *Entomol. Fenn*. 16: 278. TL: China (Shaanxi Province, Yangling). Holotype (♂): NCTC.

Tracheolena

nigrilinea Dugdale, 2005 (*Tracheolena*), *Zootaxa* 870: 5. TL: New Caledonia (Bourail, Baie des Tortues). Holotype (♂): MNHN.

liparodes Dugdale, 2005 (*Tracheolena*), *Zootaxa* 870: 7. TL: New Caledonia (Mt. Panié). Holotype (♂): MNHN.

paniense Dugdale, 2005 (*Tracheolena*), *Zootaxa* 870: 9. TL: New Caledonia (Mt. Panié). Holotype (♂): MNHN.

Transtillaspis

alluncus Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 67. TL: Ecuador (Zamora-Chinchipe Province, 22 km E Loja, P.N. Podocarpus, San Francisco Ranger Stn.). Holotype (♂): SMFL.

cothurnata Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 71. TL: Ecuador (Napo Province, 15 km SE Cosanga, Cocodrilo). Holotype (♂): SMFL.

cracens Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 68. TL: Ecuador (Loja Province, 10 km SE Loja, P.N. Podocarpus, Cajanuma Ranger Stn.). Holotype (♂): SMFL.

crepera Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 72. TL: Ecuador (Napo Province, 12 km SSE Cosanga). Holotype (♂): SMFL.

emblema Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 69. TL: Ecuador (Napo Province, 5 km W Papallacta, Laguna Papallacta). Holotype (♂): SMFL.

cracens Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 68. TL: Ecuador (Loja Province, 10 km SE Loja, P.N. Podocarpus, Cajanuma Ranger Stn.). Holotype (♂): SMFL.

empheria Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 74. TL: Ecuador (Napo Province, 10 km SSE Cosanga). Holotype (♂): SMFL.

ependyma Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 72. TL: Ecuador (Loja Province, 10 km SE Loja, P.N. Podocarpus, Cajanuma Ranger Stn.). Holotype (♂): SMFL.

galbana Razowski & Pelz, 2005 (*Trans-*

tillaspis), *Acta Zool. Cracov*. 48 (B): 73. TL: Ecuador (Napo Province, 10 km SSE Cosanga). Holotype (♂): SMFL.

juxtonca Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 69. TL: Ecuador (Loja Province, 10 km SE Loja, P.N. Podocarpus, Cajanuma Ranger Stn.). Holotype (♂): SMFL.

lypra Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 68. TL: Ecuador (Napo Province, 15 km SE Cosanga, Cocodrilo). Holotype (♂): SMFL.

mecosacculus Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 73. TL: Ecuador (Loja Province, 10 km SE Loja, P.N. Podocarpus, Cajanuma Ranger Stn.). Holotype (♂): SMFL.

mindoana Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 76. TL: Ecuador (Pichincha Province, 7 km NW Mindo, Sachatamia). Holotype (♂): SMFL.

nedyma Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 74. TL: Ecuador (Napo Province, 15 km SE Cosanga, Cocodrilo). Holotype (♂): SMFL.

neelys Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 70. TL: Ecuador (Napo Province, 15 km SE Cosanga, Cocodrilo). Holotype (♂): SMFL.

parummaculatum Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 75. TL: Ecuador (Napo Province, 15 km SE Cosanga, Cocodrilo). Holotype (♂): SMFL.

plagifascia Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 66. TL: Ecuador (Tungurahua Province, 15 km N Ambato). Holotype (♂): SMFL.

rioverdensis Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 75. TL: Ecuador (Tungurahua Province, 17 km E Baños, Rio Verde). Holotype (♂): SMFL.

tungurahuana Razowski & Pelz, 2005 (*Transtillaspis*), *Acta Zool. Cracov*. 48 (B): 76. TL: Ecuador (Tungurahua Province, 17 km E Baños, Rio Verde). Holotype (♂): SMFL.

NEW COMBINATION AND NEW SYNONYMS PROPOSED IN 2005

algoana Felder & Rogenhofer to *Algoforma* (Razowski 2005)
atalodes Meyrick to *Exoletuncus* (Razowski & Pelz 2005)
blackmorei Obraztsov as synonym of *effractana* (Karsholt et al. 2005)
blanditana Kuznetzov to *Rhopobota* (Kuznetzov 1999)
chrysodetis Meyrick to *Oregocerata* (Razowski and Brown 2005)
Clepsimorpha as synonym of *Neocalyptis* (Razowski 2005)
Clepsiphyes as synonym of *Neocalyptis* (Razowski 2005)
dentiuncanae; misspelling of *dentiuncana* (Brown 2005)
Durrantia was correctly listed as a synonym of *Phtheochroa* (Brown 2005), but not recognized

as a homonym of *Durrantia* (Oecophoridae)
effractana Hübner as valid species (Karsholt et al. 2005)
emaciatana Walsingham to *Pelochrista* (Wright 2005)
excavana Haworth, 1811, not Donovan 1794 (Karsholt et al. 2005)
fuscana Sheldon as synonym of *effractana* (Karsholt et al. 2005)
indicata Diakonoff to insertae sedis (Dugdale 2005)
keredjana Razowski to species status (Razowski 2005)
kochiana Goeze (not *kochiella*) as a valid species (Karsholt et al. 2005)
munda Diakonoff to *Eucoenogenes* (Pinkaew et al. 2005)
nielseni Kawabe as synonym of *blanditana* (Zhang et al. 2005)
pamirana Razowski to species status (Razowski 2005)
perproquinqua Heinrich as synonym of *emaciatana* (Wright 2005)
plumicornis Rothschild (in *Homona*) - holotype at BMNH, not a tortricid (unpublished)
praeconia Meyrick to *Rubrograptis* (Razowski 2005)
rhyparographta; misspelling of *rhyparograpta* (Brown 2005)
stettinensis Leraut as synonym of *effractana* (Karsholt et al. 2005)
subelectana Kawabe to *Phiaris* (Bae 2005)

LITERATURE IN SUPPORT OF THE CHANGES

Bae, Y.-S. 2005. Systematic study of the genus *Phiaris* Hübner (Lepidoptera, Tortricidae) from Korea and Japan, part III. Tinea 18 (supplement 3): 124–138.

Brown, J. W. 2005. World catalogue of insects. Volume 5: Tortricidae (Lepidoptera). Apollo Books. 741 pp.

Byun, B.-K. & S.-C. Yan. 2005. Description of a new species, records of five previously unrecorded species, and rediscovery of a lost species in the genus *Ancylis* Hübner (Lepidoptera: Tortricidae) from China. Zootaxa 1103: 17-26.

Dugdale, J. S. 2005. Three new species of *Tracholena* Common, 1965 (Lepidoptera: Tortricidae: Tortricinae: Schoetnotenini) from New Caledonia associated with Araucariaceae. Zootaxa 870: 1-16.

Ferris, C. D. 2005. A new species of *Eucosma* Hübner from the western United States (Lepidoptera: Tortricidae: Eucosmini). Zootaxa 806: 1-8.

Karisch, T. 2005. Ein neuer wickler aus Angola (Lepidoptera, Tortricidae, Olethreutinae). Lambillonea 105: 500-503.

Karisch, T. 2005. Uebersicht ueber die Gattung *Dracontogena* Diakonoff 1970 (Lepidoptera: Tortricidae: Olethreutinae: Grapholitini). [Overview of the genus *Dracontogena* Diakonoff 1970 (Lepidoptera: Tortricidae: Olethreutinae: Grapholitini).] Linzer Biologische Beiträge 37(1): 457-476.

Karsholt, O., L. Aarvik, D. Agassiz, P. Huemer & K. Tuck. 2005. *Acleris effractana* (Hübner, 1799) - a Holarctic trotricid. Nota Lepidopterologica 28: 93-102.

Kuznetzov, V. I. 2005. *Cochylimorpha razowskiana* nom. n. for *C. pallens* (Kuznetzov, 1966) (Lepidoptera: Cochylidae). Zoosystematica Rossica 14(1)

2005: 178.

Nedoshivina, S. V. and V. V. Zolotuhin 2005. A new subspecies of *Pelatea klugiana* (Freyer, 1836) from the Middle Volga Region of Russia with notes on its morphology and life history (Tortricidae). Nota Lepidopterologica 28: 3-9.

Oku, T. 2005. Some olethreutine moths (Lepidoptera: Tortricidae) from Japan confused with or allied to other known species. Tinea 18 (supplement 3): 96-114.

Pinkaew, N., A. Chandrapatya & R. Brown. 2005. Two new species and a new record of *Eucoenogenes* Meyrick (Lepidoptera: Tortricidae) from Thailand with a discussion of characters defining the genus. Proceedings of the Entomological Society of Washington 107: 869-882.

Pooni, H. S. & H. S. Rose. 2005. *Anathamna neospermatophaga* sp. nov. (Enarmoniini: Olethreutinae: Tortricidae) from western Himalaya, India. Entomon 30: 237-241.

Razowski, J. 2005. Notes and descriptions of primitive Tortricini from tropical Africa, with a list of Asian taxa (Lepidoptera: Tortricidae). SHILAP Revista de Lepidopterologia 33: 423-436.

Razowski, J. 2005. Review of *Neocalyptis* Diakonoff, 1941 (Lepidoptera: Tortricidae) with description of five new species. Polskie Pismo Entomologiczne 74: 137-148.

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Rose, H. S. and Pooni, H.S. 2005. Taxonomic studies on the family Tortricidae (Tortricoidea: Lepidoptera) from northwestern India - tribe Eucosmini

(Olethreutinae). Zoos' Print Journal 20(2): 1751-1765. [haven't seen]

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Zhang, A.-H., H.-H. Li & S. Wang. 2005. Study on the genus *Rhopobota* Lederer from China (Lepidoptera: Tortricidae: Olethreutinae). Entomologica Fennica 16: 273-286.

ZOOTAXA STILL LOOKING FOR NEW LEPIDOPTERA SUBJECT EDITORS

Zootaxa, a rapid international journal for animal taxonomists, is still seeking one or more qualified Lepidoptera Section editors. If interested, please contact Dr. Zhang at "zed@mapress.com"

MIXED REVIEWS OF TORTRICID CATALOGUE

I have seen a number of published reviews of the tortricid catalogue, and most of them point out a number of minor deficiencies and/or shortcomings in the product. Fortunately, most are the types of errors that can be corrected in the electronic version currently being developed. Although there appear to be very few omitted taxa and few misspellings of taxa, there are a number of misspellings of authors' names, and an inordinate number of either misspelled or incorrect type localities. If and when you encounter these types of errors, please forward them me so they can be corrected. Thanks.

Another criticism of the catalogue is the total loss of phylogenetic information by organizing taxa alphabetically. Perhaps genera should have been grouped together at the tribal level, with those that are conspicuously similar placed together, following classifications such as those proposed by Razowski in his catalogues of various geographic regions - something to consider for the updated edition in 25-30 years!

If you have comments and/or recommendations, please feel free to send them to me. It would be interesting to begin a dialog regarding the "essentials" and how to best convey the included information. It is possible that we will be able to incorporate these types of suggestions into the current database, and in turn develop different ways of sorting the data to maximize the ease of usage and still retain the maximum phylogenetic content. Thanks in advance for your comments.

"MEMBERSHIP" LIST

Leif Aarvik
Zoological Museum
University of Oslo, P.O. Box 1172 Blindern
N-0318 Oslo, Norway
e-mail: leif.aarvik@nhm.uio.no

David Adamski
Systematic Entomology Laboratory, USDA
c/o National Museum of Natural History
P.O. Box 3712
Washington, DC 20013-7012, USA
e-mail: dadamski@sel.barc.usda.gov

Helen Alipanah
Plant Pests and Diseases Research Institute
Tehran 19395-1454, Iran
e-mail: halipanah@yahoo.com

Yang-Seop Bae
Department of Biology
College of Natural Sciences
University of Inchon, Inchon 402-749, Korea
e-mail: baeys@lion.inchon.ac.kr

Joaquin Baixeras
Institut Cavanilles de Biodiversitat i Biologia Evolutiva
Universitat de Valencia
Apartat oficial 2085
46071-Valencia, Spain
e-mail: Joaquin.Baixeras@uv.es

George J. Balogh
6275 Liteolier Street
Potage, MI 49024
e-mail: bugdr@chartermi.net

Vitor O. Becker
Reserva Serra Bonita
P.O. Box 0001
45880-970 Camacan, BA-Brazil
e-mail: vbecker@terra.com.br; or
vbecker@serrabonita.org.br

Charles Bird
Box 22, Erskine
Alberta, T0C 1G0, Canada
e-mail: cdbird@electrotel.ca

John W. Brown
Systematic Entomology Laboratory, USDA
c/o National Museum of Natural History
P.O. Box 37012
Washington, DC 20013-7012, USA
e-mail: jbrown@sel.barc.usda.gov

Richard L. Brown
Mississippi Entomological Museum
Mississippi State, MS 39762, USA
e-mail: moth@ra.msstate.edu

Jonathan Brusch
APHIS-PPQ
e-mail: Jonathan.Brusch@aphis.usda.gov

B.-K. Byun
Systematic Entomology Laboratory
Division of Specimen and Genetic Research
Korean National Arboretum
Jikdongri 51-7, Soheulup, Pocheon
Prov. Gyeonggi, 487-821, Korea
e-mail: bkbyun@foa.go.kr

Yi-jing Chen
Inner Mongolia Grassland Station
Chifeng, Inner Mongolia 024000, China
e-mail: [please provide]

Soowon Cho
Department of Agricultural Biology
Chungbuk National University
Cheongju, 361-763, Korea
e-mail: soowon@trut.chungbuk.ac.kr

Charles V. Covell, Jr.
McGuire Center for Lepidoptera Research
Florida Museum of Natural History
University of Florida, P.O. Box 112710
Gainesville, FL 32611-2710, USA
e-mail: covell@louisville.edu

P. T. Dang
Biosystematics Research Institute
K.W. Neatby Building, Agriculture Canada
Ottawa, Ontario K1A 0C6, Canada
e-mail: dangp@em.agr.ca

John A. De Benedictis
Department of Entomology
University of California
Davis, CA 95616, USA
e-mail: jadebenedictis@ucdavis.edu

John S. Dugdale
Manaaki Whenua-Landcare Research NZ Ltd.
c/o Private Bag 6, Nelson 7001, New Zealand
e-mail: jsdugdale@Xtra.co.nz; dugdale@landcare.co.nz

Jason Dombroskie
Department of Biological Sciences
University of Alberta
Edmonton, Alberta T6G 2E9, Canada
email: dombrosk@ualberta.ca

Loran Gibson
2727 Running Creek Drive
Florence, KY 41042-8984, USA
e-mail: kymothman@fuse.net

Todd Gilligan
860 Greenridge Road
Columbus, OH 43235, USA
e-mail: tgilliga@columbus.rr.com

Roberto Gonzalez
University of Chile, College of Agriculture
P.O. Box 1004, Santiago, Chile
e-mail: rgonzale@abello.dic.uchile.cl

Frans Groenen
Dorpstraat 171
NL - 5575 Luyksgestel, Netherlands
e-mail: groene.eyken@chello.nl

John B. Heppner
Florida State Collection of Arthropods
University of Florida, P.O. Box 147100
Gainesville, FL 32614, USA
e-mail: heppnerj@doacs.state.fl.us

Marianne Horak
Division of Entomology, CSIRO
G.P.O. Box 1700, Canberra, ACT 2601, Australia
e-mail: marianne.horak@csiro.au

Peter Huemer
Tiroler Landesmuseum Ferdindeum
Naturwissenschaftliche Sammkungen
Feldstrabe 11a, A-6020, Innsbruck, Austria
e-mail: p.huemer@tiroler-landesmuseum.at

Josef Jaros
Institute of Entomology
Czech Academy of Sciences, Branisovska 31
CZ-370 05 Ceske Budejovice
Czech Republic
e-mail: jaros@entu.cas.cz

Utsugi Jinbo
ITO Laboratory, Dept. of General Systems Studies
The University of Tokyo, 3-8-1 Komaba
Meguro, 153-8902 JAPAN
e-mail: ujinbo@mothprog.com

Timm Karisch
Museum fur Naturkunde und Vorgeschichte Dessau
Askanische Strabe 32
D-06842 Dessau, Germany
e-mail: [please provide]

Amit Katewa
Department of Zoology
Punjabi University, Patiala, Punjab
INDIA -147 002
e-mail: amitkatewa@yahoo.com

Warren J. Kiel
6 Backstone Street
Whitefield, NH 03598, USA
e-mail: [please provide]

Furumi Komai
Environmental Planning Department
Osaka University of Arts
469 Higashiyama, Kanan-cho
Osaka, 585-8555 Japan
e-mail: wickler@amber.plala.or.jp

James Kruse
Interior Alaska Forest Entomologist
USDA Forest Service, State and Private Forestry
Forest Health Protection, Fairbanks Unit
3700 Airport Way, Fairbanks, AK 99709
e-mail: jkruse@fs.fed.us

Wojciech Kubasik
Agricultural University of Poznan
Department of Entomology

ul. Dabrowskiego 159
60-594 Poznan, Poland
e-mail: wkubasik@au.poznan.pl

Yuichi Kusunoki
11-3, Kaguraoka
Asahikawa, Hokkaido, 078-8321, Japan
e-mail: [please provide]

V.I. Kuznetzov
Zoological Institute of Academy of Sciences
Universiteyskaya nab. 1
199034, St. Petersburg, Russia
e-mail: lepid@zin.ru

Eric LaGasa
Washington State Department of Agriculture
P.O. 42569
Olympia, WA 98504, USA
e-mail: elagasa@agr.wa.gov

Bernard Landry
Museum d'Histoire Naturelle
C.P. 6434, CH-1211 Geneve, Switzerland
e-mail: bernard.landry@ville-ge.ch

Jean-François Landry
Agriculture & Agri-Food Canada
960 Carling Avenue
Ottawa, Ontario K1A 0C6, Canada
e-mail: landryjf@agr.gc.ca

Hou-Hun Li
Department of Biology
Nankai University
Tianjin 300071, China
E-mail: lihouhun@nankai.edu.cn

Youqiao Liu
Building 822-304
Zhongguancun, Haidian, Beijing
100080, China
e-mail: [please provide]

Lisa Lumley
Earth Sciences 1-52E
Department of Biological Sciences
University of Alberta
e-mail: llumley@ualberta.ca

Chris Maier
Department of Entomology
The Connecticut Agricultural Experiment Station
P.O. Box 1106, New Haven, CT 06505, USA
e-mail: Chris.Maier@po.state.ct.us

Sheyda M. Maharramova
Institute of Zoology
National Academy of Sciences of Azerbaijan
Baku, Passage 1128, block 504
Az1073, Azerbaijan
e-mail: sheyda@bakililar.az

Eric Metzler
P.O. Box 45
Alamogordo, NM 88311, USA
e-mail: spruance@charter.net

William E. Miller
Department of Entomology
University of Minnesota
St. Paul, MN 55108, USA
e-mail: mille014@umn.edu

Charles Mitter
Department of Entomology
University of Maryland
College Park, MD 20742
e-mail: cmitter@umd.edu

Erik J. van Nieukerken
National Museum of Natural History Naturalis
Department of Entomology
P.O. Box 9517, 2300 RA Leiden, Netherlands
e-mail: Nieukerken@naturalis.nnm.nl

Yoshitsugu Nasu
153-2, Nakado, Hashimoto
Wakayama Pref. 648-0023, Japan
e-mail: fwik6205@mb.infoweb.ne.jp

Peter T. Oboyski
137 Mulford Hall, #3114
University of California
Berkeley CA 94720-3114, USA
e-mail: poboyski@nature.berkeley.edu

U. Parenti
Universita di Torino
Dipartimento di Biologia Animale

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Pasquale Trematerra
Department S.A.V.A
University of Molise, Via De Sanctis
I-86100 Campobasso, Italy
e-mail: trema@unimol.it

Kevin R. Tuck
Department of Entomology
The Natural History Museum
London SW7 5BD, United Kingdom
e-mail: K.Tuck@nhm.ac.uk

Thomas Wallenmaier
1833 Torquay Avenue
Royal Oak, MI 48073-1222, USA
e-mail: twallen@hfcc.edu

Donald J. Wright
3349 Morrison Avenue
Cincinnati, OH 45220, USA
e-mail: wrightdj@fuse.net

Wang Xinpu
Department of Biology
Nankai University
94, Weijin Road, Tianjin
China, 300071
e-mail: wangxinpu@eyou.com

Shen-Horn Yen
Department of Biological Sciences
National Sun Yat-Sen University
70 Lien-hai Rd.
Kaohsiung City 804, Taiwan
e-mail: shenhornyen@hotmail.com

Aihuan Zhang
Department of Plant Science and Technology
Beijing Agricultural College
Beijing, 102206
P. R. China
e-mail: zhangaihuan@bac.edu.cn; or
zhangaihuan@atfriday.com

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