

TENTH NORTH AMERICAN PLECOPTERA SYMPOSIUM

The **Tenth North American Plecoptera Symposium** will be held in Pennsylvania in the late spring or early summer of 2012. Please contact **Dr. R. Edward DeWalt**, edewalt@inhs.uiuc.edu or **Jane Earle**, janeearle7@msn.com for additional information.

ILLIESIA

Illiesia, International Journal of Stonefly Research has completed publication of Volume 6 with the inclusion of 25 individual articles submitted by 20 authors. Articles are given rigorous peer review under direction of the Advisory Board and Editors and with the assistance of many colleagues who agree to review manuscripts. Editors are Ignac Sivec, Slovenian Museum of Natural History, and Bill P. Stark, Mississippi College. The Advisory Board includes Boris Kondratieff, Richard Baumann, Kenneth Stewart, Stan Szczytko, C. Riley Nelson, Charles H. Nelson, John Brittain, Takao Shimizu, Claudio Froehlich, Wolfram Graf and Peter Harper, and journal formatting is under the direction of Mia Sivec and Mojimir Stangelj. We thank you for your continued support and invite your submissions for consideration for Volume 7. Questions or submissions should be sent to isivec@mrc.pms-lj.si or stark@mc.edu. The Illiesia website is located at <http://www2.pms-lj.si/illiesia/>

MEMBER NEWS

Drs. **J. Manuel Tierno de Figueroa** and **Manuel J. López-Rodríguez**, University of Granada (Spain) are working on nymphal biology (life cycle, feeding and secondary production) in southern Spain and northern Italy, in collaboration with Drs. **Luzón-Ortega**, **Fenoglio** and **Bo**. Moreover, physiological studies on digestive enzyme activities of stoneflies are being carried out in collaboration with Drs. **Sanz** and **Trenzado**. Also, they carry on studying the only known population of a *Protonemura gevi*, a cavernicolous stonefly species recently described by these authors, and they are collaborating with Dr. **Luzón-Ortega** in a study of the drumming calls of several species of stoneflies from Spain. They are also collaborating with **Dr. Fochetti** in genetic approaches for the resolution of taxonomical problems of stoneflies, particularly in the genera *Besdolus* and *Isoperla*, and with **Dr. Derka** in some nymphal biology studies of species inhabiting streams with constant temperature in Slovakia. Finally, they are also working at the community level in several streams from the southern Iberian Peninsula.

The Plecoptera collection at the Natural History Museum in Oslo digitalized and georeferenced

Louis Boumans (louis.boumans@nhm.uio.no)

The Natural History Museum in Oslo (NHMO) houses a large alcohol collection of Norwegian stoneflies. About half of this collection is rather well curated; the other half is

unsorted material. Most of the material was collected by the late Albert Lillehammer (1930-1992), who worked extensively on the biology and taxonomy of Norwegian stoneflies. In 2010 the Museum received a grant from Artsdatabanken, the Norwegian Biodiversity Information Centre, for the georeferencing and quality assurance of Lillehammer's stonefly collection. After a few months' of work, we have now delivered 4280 georeferenced, collection-based records covering all provinces of Norway. Most specimens were collected between 1965 and 1975, and identified by Lillehammer himself. The data will be published through www.artsdatabanken.no as well as the GBIF portal.

New research project on aquatic insects at the University of Oslo

Louis Boumans (louis.boumans@nhm.uio.no)

In February 2010, I started as a Ph.D. candidate at the Natural History Museum of the University of Oslo on a research project on speciation in Nordic Aquatic Insects. My plan is to investigate a number of the taxonomic issues raised by morphological and behaviour variation in Nordic species using molecular techniques. The central topic is loss (and gain?) of flight ability both in stoneflies and crane flies (Tipulidae). This phenomenon shows fairly small-scaled geographical variation, which calls for a phylogeographic approach. I also intend to take up the issue of body asymmetry in the mayfly *Heptagenia dalecarlica*, which is reversed relative to other species of the genus. In addition, part of my duties consists of building a DNA barcode library for Plecoptera and some other groups. I am looking forward to collaborate with colleagues working on similar topics, and exchange samples for the purpose of phylogeographic analyses. A more detailed project description can be found under the link below:

<http://www.nhm.uio.no/english/research/ncb/research/projects/aquatic-insects>

R. Edward DeWalt and Massimo Pessino, University of Illinois, Illinois Natural History Survey, Champaign, Illinois 61820, edewalt@inhs.uiuc.edu, pessino1@illinois.edu.

We have been working on two large projects: phylogeography of two eastern North American stoneflies (*Allocapnia granulata* and *Acroneturia frisoni*, Capniidae and Perlidae, respectively) and reconstruction of the natural range of stonefly species in the Midwest (Illinois, Indiana, Michigan, Ontario, and Wisconsin). Ember Chabot (MS working on *A. frisoni*) has finished her thesis, finding that the west slope Appalachian Mt. refugium contributed most to recolonization of once glaciated areas, while the Ozark Mts. refugium contributed little to repopulating the north. A reintroduction of *A. frisoni* to eastern Illinois based on Indiana populations has failed but will be rekindled this spring. Work on *A. granulata* is ongoing with populations from Oklahoma, Alabama, Mississippi, and Virginia to be added the analysis.

Modeling of natural range of Midwest species is still in the data collection phase with over 24,000 specimen records having been gathered.

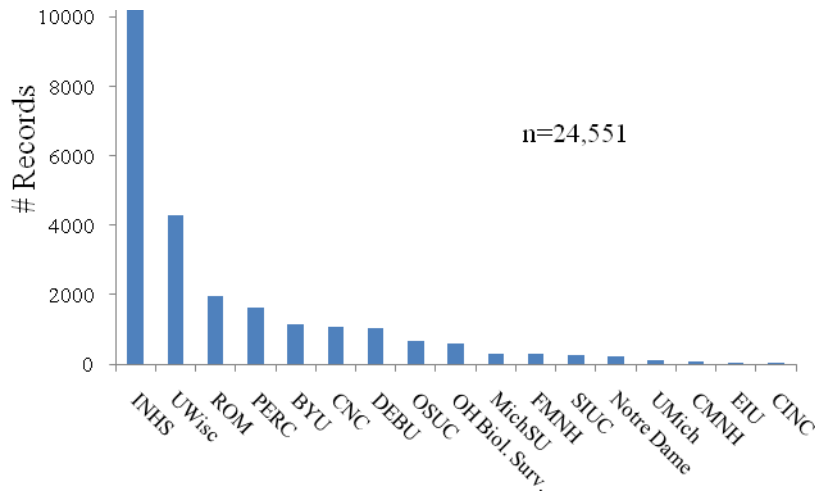


Fig. 1. Number of specimen records from each institution.

We have modeled natural range for 40 species (Fig. 2, *Acroneuria abnormalis* for instance) and overall species richness (Fig. 3) in Illinois. Models and observed data correlated closely. Modeling of the entire Midwest will commence in spring, 2011.

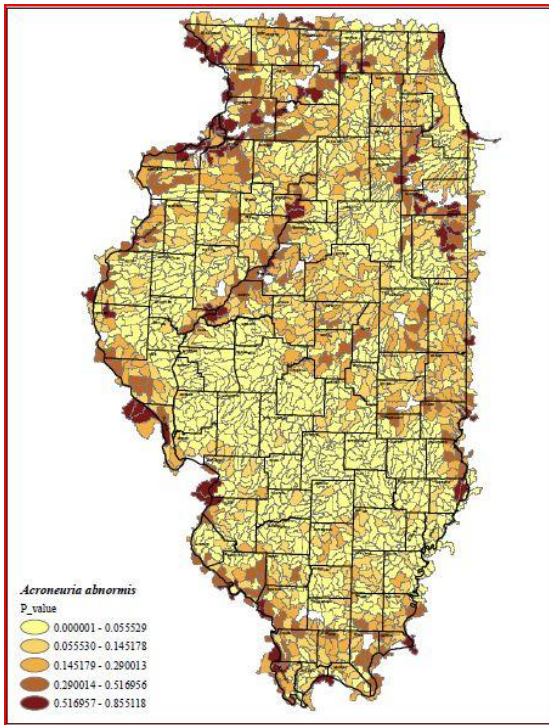


Fig. 2. Probability of occurrence for *Acroneuria abnormalis* (Newman) in IL HUC12 drainages.

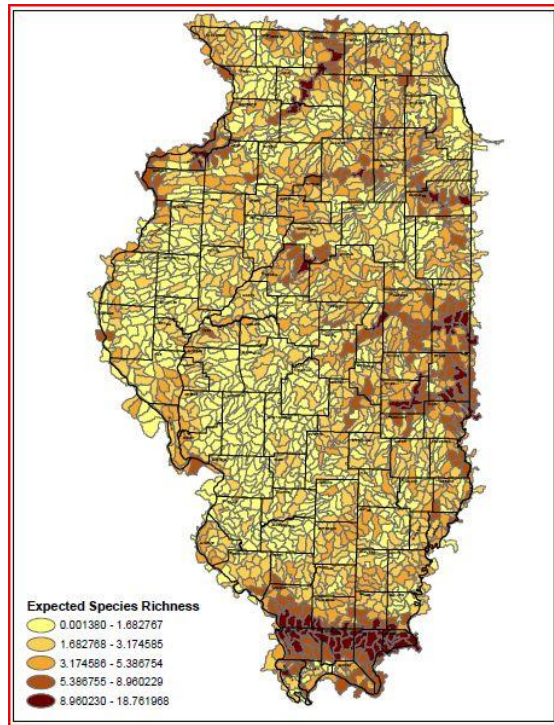


Fig. 3. Expected species richness for stoneflies in IL HUC12 drainages.

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Zoologisch-Botanische Datenbank/Zoological-Botanical Database

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