Open access electronic journals: an effective online tool for support of expert networking and e-Science in the area of biological invasions

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REABIC is serving as a virtual institute providing on-line information services in the area of biological invasions research and management

http://www.reabic.net

REABIC is web-host for the International Society of Limnology Working Group on Aquatic Invasive Species (SIL WG AIS)

http://www.reabic.net/SIL.aspx
The Working Group was established in August 1998 at the 27th SIL Congress in Dublin, Ireland.

The long-term goal of the Working Group is to promote global awareness of the problems and risks posed by cross-boundary species transfers by encouraging and improving scientific networking and data exchanges.
Suggested initial key activities of the Working Group:

1. To develop an international network of interested scientists and decision-makers concerned about aquatic invasive species, using the Internet as a primary vehicle of communication;

2. To encourage and seek support for development of an international database on AIS;

3. To support/organize thematic international meetings
Considering new global networking initiatives, in 2005 we suggested new key activities of the Working Group (SIL News 46, September 2005):

1. To facilitate development of interlinked subregional and regional thematic networks and information hubs of the Global Invasive Species Informational Network;

2. To develop a new concept for a regional information system linked to e-journal on aquatic invasive species (REABIC case study)

http://limnology.org/publications/sil-news/
Networks of environmental agencies and managers

How to make this complex Network of Networks interconnected and function effectively?

Networks of primary data owners: scientists, citizens

Towards effective transfer of knowledge on invasive species

Networks of IAS-related databases
Formal approach to transfer of knowledge on invasive species

**Networks of environmental agencies and managers**

**Focus on formal / official mechanisms**

**Networks of IAS-related databases**

**Networks of primary data owners: scientists, citizens**

**NOT effective:**
- User-friendly tools for data analysis and knowledge transfer are generally missing, and their support is expensive

**NOT effective:**
- Contract-based expensive

**NOT effective:**
- Project-based expensive
Innovative approach to transfer of knowledge on invasive species

Networks of environmental agencies and managers

Highly effective: experts can provide recommendations for management of IAS, and managers can report on best management practices in applied papers

Open Access journals

Highly effective: experts always interested in journal publications and even ready to pay for open access to their papers – but some of them may need support for data publication

Networks of IAS-related databases

Cost-effective: some resources are needed for transfer of published data to the database

Networks of primary data owners: scientists, citizens
2006 – establishment of *Aquatic Invasions*, an open access, peer-reviewed international journal. At present, focus on academic research of biological invasions in inland and coastal water ecosystems.

Aquatic Invasions is an open access, peer-reviewed international journal focusing on academic research of biological invasions in inland and coastal water ecosystems from around the world (please see "Journal Information" and "Author Guidelines" pages for more information).

Aquatic Invasions is indexed by Thomson Reuters databases, SCOPUS, CAB Abstracts and ASFA databases (please see "Journal Information" page for details).

2015 Impact Factor: 1.955

**Editors-in-Chief:**
John Mark Hanson, *Fisheries and Oceans Canada, Canada* (marine and coastal water invasions) and
Kit Magellan, *The University of Hong Kong, Hong Kong, China* (inland water invasions)

http://www.aquaticinvasions.net
2012 – establishment of *BioInvasions Records*, rapid peer-reviewed international journal of field research on biological invasions in aquatic and terrestrial ecosystems

*BioInvasions Records* is an open access, rapid peer-reviewed international journal of field research on biological invasions in aquatic and terrestrial ecosystems from around the world. *BioInvasions Records* is devoted primarily to publication of research and data papers on records of non-native species. The journal provides the opportunity of timely publication of first records of aquatic and terrestrial invaders and other relevant information needed for online databases, decision support and early warning systems.

http://www.reabic.net/bir/
2013 – development of new concept and new editorial team of *Management of Biological Invasions*, an open access, peer-reviewed international journal focusing on applied research on alien species and biological invasions in aquatic and terrestrial ecosystems.

Management of Biological Invasions is an open access, peer-reviewed international journal focusing on applied research on alien species and biological invasions in aquatic and terrestrial ecosystems from around the world. Management of Biological Invasions is devoted to bridging the gap between scientific research and the use of science in decision-making, regulation and management in the area of introduction of invasive species and biodiversity conservation.

http://www.reabic.net/mbi/
The incorporation of thematic open access e-journals into the IAS-related information systems represents an innovative cost-effective approach to invasive species-related information management and ensures sustainability of these information systems and their information management tools.

Also, open access e-journals serve as effective tools supporting expert networks, and linking expert networks with networks of other stakeholders.

http://www.reabic.net/journals/
New records of *Corbicula* clams in French rivers

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Abstract

The aim of this paper is to present new data and review the current distribution of *Corbicula* spp. in France. Three morphotypes were recorded during the study - “round form”, “light R form” and “saddle form”. During April 2009, *Corbicula* spp. were found in six aquatic systems in France, including the rivers (Corubacula flava, *C. variegata* and *C. ariakensis*), other bodies of water.
New records of Corbicula in French rivers

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$Both authors contributed
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Received: 22 December 2016

Abstract

The aim of this paper is to present new data and review the current distribution of Corbicula spp. in France. Three morphotypes were recorded during the study - “round form”, “light R form” and “saddle form”. During April 2009, Corbicula spp. were found in and around the cities of Sens, Mâcon, Lyon, Charpennes, Soissons, Reims, and Châlons-en-Champagne. The aim of this paper is to present new data and review the current distribution of Corbicula spp. in France. Three morphotypes were recorded during the study - “round form”, “light R form” and “saddle form”. During April 2009, Corbicula spp. were found in and around the cities of Sens, Mâcon, Lyon, Charpennes, Soissons, Reims, and Châlons-en-Champagne.

Figure 2. Hydrological map of France showing previous and new records of Corbicula in French rivers. The new records are in red. Rivers sampled in this study are indicated in bold with the coloured circles referring to the presence of each form: form R in blue, form R1e in red and form S in green.

http://www.reabic.net/journals/
REABIC data publication policy – authors are requested to submit primary geo-referenced data

Table 1. The invasion of Corbicula spp. in French large rivers and canals. The underlined locations present the new records of Corbicula in France. The morphotypes recorded in our samples are indicated.

<table>
<thead>
<tr>
<th>Location (Basin/River) and Corbicula form</th>
<th>Record coordinates</th>
<th>Record date</th>
<th>Previous record references</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Artois-Picardie</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Canal de la Somme (first record of form R)</td>
<td>49°55'243&quot;N 2°44'499&quot;E</td>
<td>5 April 2009</td>
<td>Present study</td>
</tr>
<tr>
<td><strong>Seine-Normandie</strong></td>
<td></td>
<td></td>
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<tr>
<td>Aisne (form R)</td>
<td>49°25'588&quot;N 2°51'168&quot;E</td>
<td>5 April 2009</td>
<td>Mouton 2000</td>
</tr>
<tr>
<td>Oise (first record of form R)</td>
<td></td>
<td></td>
<td>Present study</td>
</tr>
<tr>
<td>Seine (first record of form S)</td>
<td>NA</td>
<td>NA</td>
<td>Chevallier 2000 &amp; present study</td>
</tr>
<tr>
<td><strong>Loire-Bretagne</strong></td>
<td></td>
<td></td>
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<tr>
<td>Allier (form R)</td>
<td>46°33'456&quot;N 3°19'586&quot;E</td>
<td>18 April 2009</td>
<td>Vrignaud 2007</td>
</tr>
<tr>
<td>Canal Nantes-Brest (form R)</td>
<td>47°26'723&quot;N 1°33'957&quot;W</td>
<td>11 April 2009</td>
<td>Mouton 2000</td>
</tr>
<tr>
<td>Loire (form R)</td>
<td>46°07'351&quot;N 4°05'866&quot;E</td>
<td>18 April 2009</td>
<td>Gnet 1992</td>
</tr>
<tr>
<td>Vilaine (first record of form R)</td>
<td>47°35'925&quot;N 2°05'865&quot;W</td>
<td>11 April 2009</td>
<td>Present study</td>
</tr>
</tbody>
</table>

http://www.reabic.net/journals/
Presentation of published data in the REABIC information system

http://www.reabic.net
Data publishing services of open access journals: contribution to EASIN-lit with geo-referenced IAS record data, top 15 journals (2015)

<table>
<thead>
<tr>
<th>Open Access journals</th>
<th>Number of references to data sources</th>
</tr>
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<tbody>
<tr>
<td>Aquatic Invasions</td>
<td>39</td>
</tr>
<tr>
<td>Mediterranean Marine Science</td>
<td>21</td>
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<tr>
<td>Biological Invasions</td>
<td>14</td>
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<tr>
<td>Marine Biodiversity Records</td>
<td>11</td>
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<tr>
<td>Hydrobiologia</td>
<td>9</td>
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<tr>
<td>Scientia Marina</td>
<td>8</td>
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<tr>
<td>Comm. Int. l’Expl. Sciede la Mer Méd</td>
<td>6</td>
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<tr>
<td>J. Black Sea/Med.Env.</td>
<td>6</td>
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<tr>
<td>European Journal of Wildlife Research</td>
<td>6</td>
</tr>
<tr>
<td>Journal of Zoology</td>
<td>6</td>
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<tr>
<td>BiolInvasions Records</td>
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<tr>
<td>Cahiers de Biologie Marine</td>
<td>5</td>
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<tr>
<td>J. of Plankton Research</td>
<td>5</td>
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<tr>
<td>Marine Biology</td>
<td>5</td>
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<tr>
<td>Mammal Review</td>
<td>5</td>
</tr>
</tbody>
</table>

http://easin.jrc.ec.europa.eu/EASINLits
Presentation of data published in REABIC journals in WRIMS

World Register of Introduced Marine Species

A gateway to introduced, cryptogenic & previously considered alien species

Online sources

Online databases
- Molnar et al. (2008)
- Hayes et al. (2005)
- DAISIE
- GISD
- EASIN
- AquaNIS

Online journals
- Aquatic Invasions
- BioInvasions Records
- Marine Biodiversity Records
- Mediterranean Marine Science Journal
- New Mediterranean Biodiversity Records
- Biological Invasions

http://www.marin_species.org/introduced/online_sources.php
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- Biological Invasions

http://www.marinespecies.org/introduced/online_sources.php
Early warning services of open access journals
Selected records of IAS, published in REABIC journals in 2015
Services of open access journals for support of expert networks

http://www.reabic.net
European Information and Research Network on Aquatic Invasive Species (ERNAIS)

http://www.reabic.net/ERNAIS.aspx
Global editorial network of thematic open access journals (Aquatic Invasions, BioInvasions Records, Management of Biological Invasions)
Most recent global networking initiative – International Association for Open Knowledge on Invasive Alien Species (INVASIVESNET)

Our mission:

to facilitate a greater understanding and management of biological invasions by creating a global sustainable network of networks of all interested and affected stakeholders for development and effective exchange of open high quality knowledge and open data on invasive species
For details please see our recent Viewpoint paper

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INVASIVESNET towards an International Association for Open Knowledge on Invasive Alien Species

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http://www.reabic.net/journals/mbi/2016/Issue2.aspx
Open access journals: core linking element for INVASIVESNET

Source: Lucy et al. 2016