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PESI Publishers Meeting

*Applying taxonomy to organise and
deliver publications to biologists*

David Remsen, Senior Programme Officer, GBIF
15 July Amsterdam

WWW.GBIF.ORG

Scope of this presentation



- Promote dissemination and accessibility of scholarly publications
- Increase impact through integrated activity

RSS: Really Simple Syndication

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<http://www.bioone.org/action/showFeed?type=etoc&feed=rss&jc=cope>



<Channel>

Metadata about the feed
 Journal Title
 Description
 Links Image (Current Issue)

Item (Article)	Article Title	Link
Description (Abstract)		GUID

Item (Article)

Item (Article)

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Discovery of articles by publication

Index of 1000+ RSS feeds



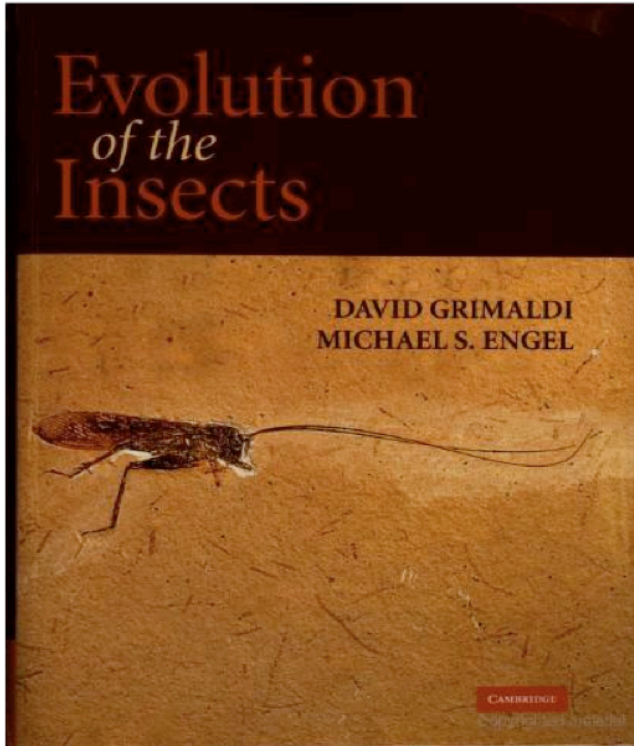
- uBio Work catalogued RSS feeds
- Scholarly Publications
- Few Scholarly Blogs

Scientific Names embedded in RSS Text

- Revised diagnosis and redescription of *Apistobuthus susanae* (Scorpiones, Buthidae)
Shahrokh Navidpour, Graeme Lowe
pg(s) 45–59
[Abstract](#)
[Abstract & References](#) : [Full Text](#) : [PDF \(3791 KB\)](#) : [Rights & Permissions](#)
- On the endemic Sri Lankan genus *Pettalus* (Opiliones, Cyphophthalmi, Pettalidae) with a description of a new species and a discussion of its diversity
Prashant Sharma, Indika Karunarathna, Gonzalo Giribet
pg(s) 60–67
[Abstract](#)
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- Characterization of the green iridescence on the chelicerae of the tube web spider, *Segestria florentina* (Rossi 1790) (Araneae, Segestriidae)
A. L. Ingram, A. D. Ball, A. R. Parker, O. DeParis, J. Boulenguez, S. Berthier
pg(s) 68–71
[Abstract](#)
[Abstract & References](#) : [Full Text](#) : [PDF \(542 KB\)](#) : [Rights & Permissions](#)
- Post-reproductive changes in female crab spiders (*Misumena vatia*) exposed to a rich prey source



Scientific Names are links to taxa



All *accumulated information* of a species is tied to a scientific name, a name that serves as a link between what has been learned in the past and what we today add to the body of knowledge.

- Grimaldi & Engel, 2005, Evolution of the Insects

Nomenclature is what makes literature taxonomic literature

TaxonFinder: Finds scientific names in RSS Text



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Journal: **Copeia**
 Published by: The American Society of Ichthyologists and Herpetologists

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ARTICLES

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 Christopher H. Chandler, Fredric J. Janzen
 pp(1) 209-213
 Abstract & References - Full Text - PDF (497 KB) - Rights & Permissions
- 2 A Redescription of *Catantops stramineus* (Cynipidae: Catantopidae)
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- 3 Early Experience Leads to Changes in the Advertisement Calls of Male *Myadestes occidentalis*
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- 4 Sexual and Seasonal Disruption in the Coastland Plains Woodland Salamander, *Plethodon lewisi* (Ecaetidae: Plethodontidae)
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- 5 The South American Electric Fish Genus *Platyprocterus* (Gymnotiformes: Apteronotidae)
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- 6 A New Species of *Myadestes* from Myanmar (Columbidae: Rapiniidae)
 Hoek Van Ng, Maurice Kottelat
 pp(1) 245-250



uBio logo and navigation: Universal Biological Indexer and Organizer | MBLWHOI Library

Find name... 11,106,374 NameBank Records

Tools - FindIT (help)

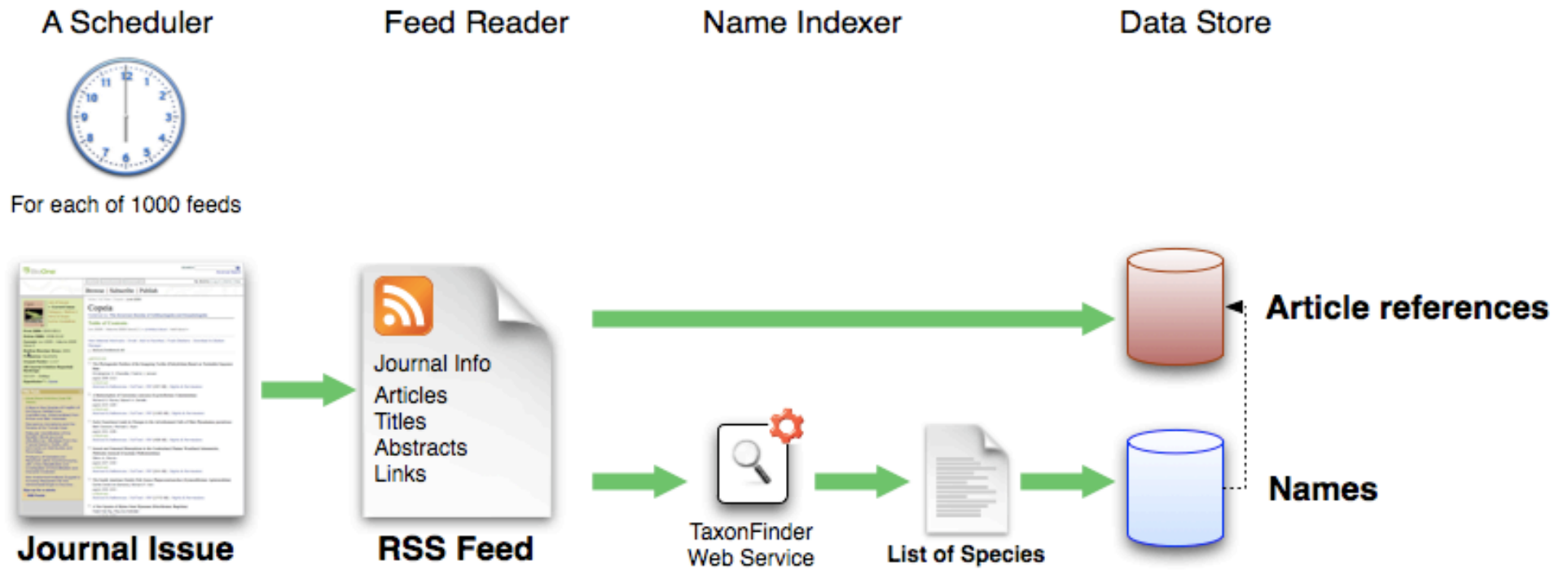
Reading <http://api.ingentaconnect.com/content/bac/zo/latest?format=rss>

Strings: 18
 Time: 0.76 sec

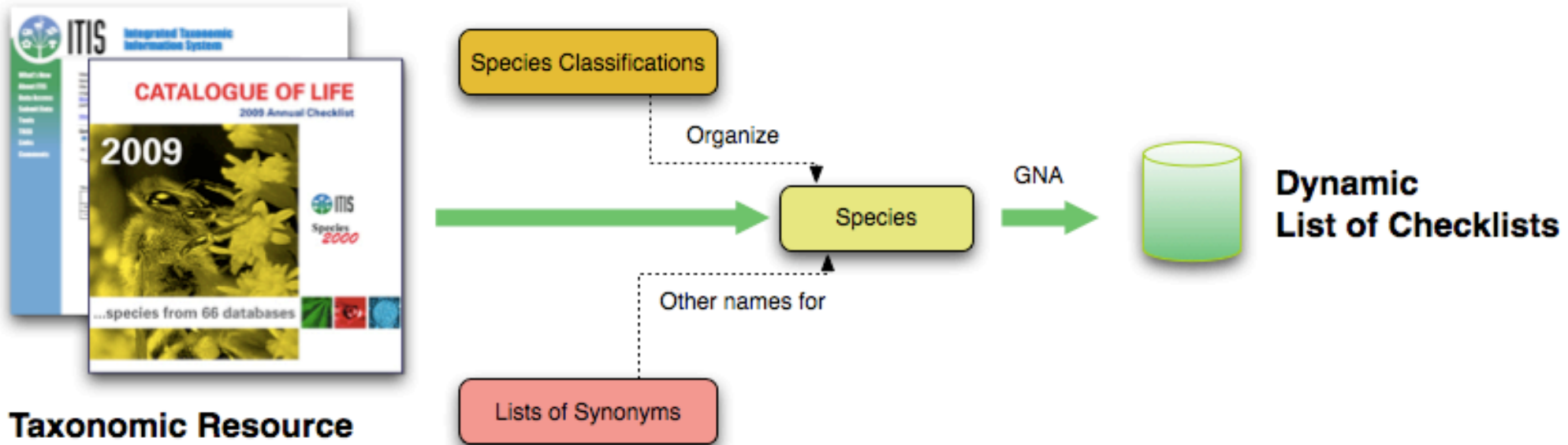
Name String (as appears in text)	Canonical form of string
Arachnida	Arachnida
Arvicolinae	Arvicolinae
Aspersina murmanica	Aspersina murmanica
Beauchampiella eudactylota	Beauchampiella eudactylota
Eocanthecona furcellata	Eocanthecona furcellata
Euchlanidae	Euchlanidae
Heteroptera	Heteroptera
Mammalia	Mammalia
Microtus	Microtus
Opillones	Opillones
Pentatomidae	Pentatomidae
Phalangida	Phalangida
Proterosuchus fergusii	Proterosuchus fergusii
Reptilia	Reptilia
Rodentia	Rodentia
Rotifera	Rotifera
Timea	Timea
Trichosurus vulpecula	Trichosurus vulpecula

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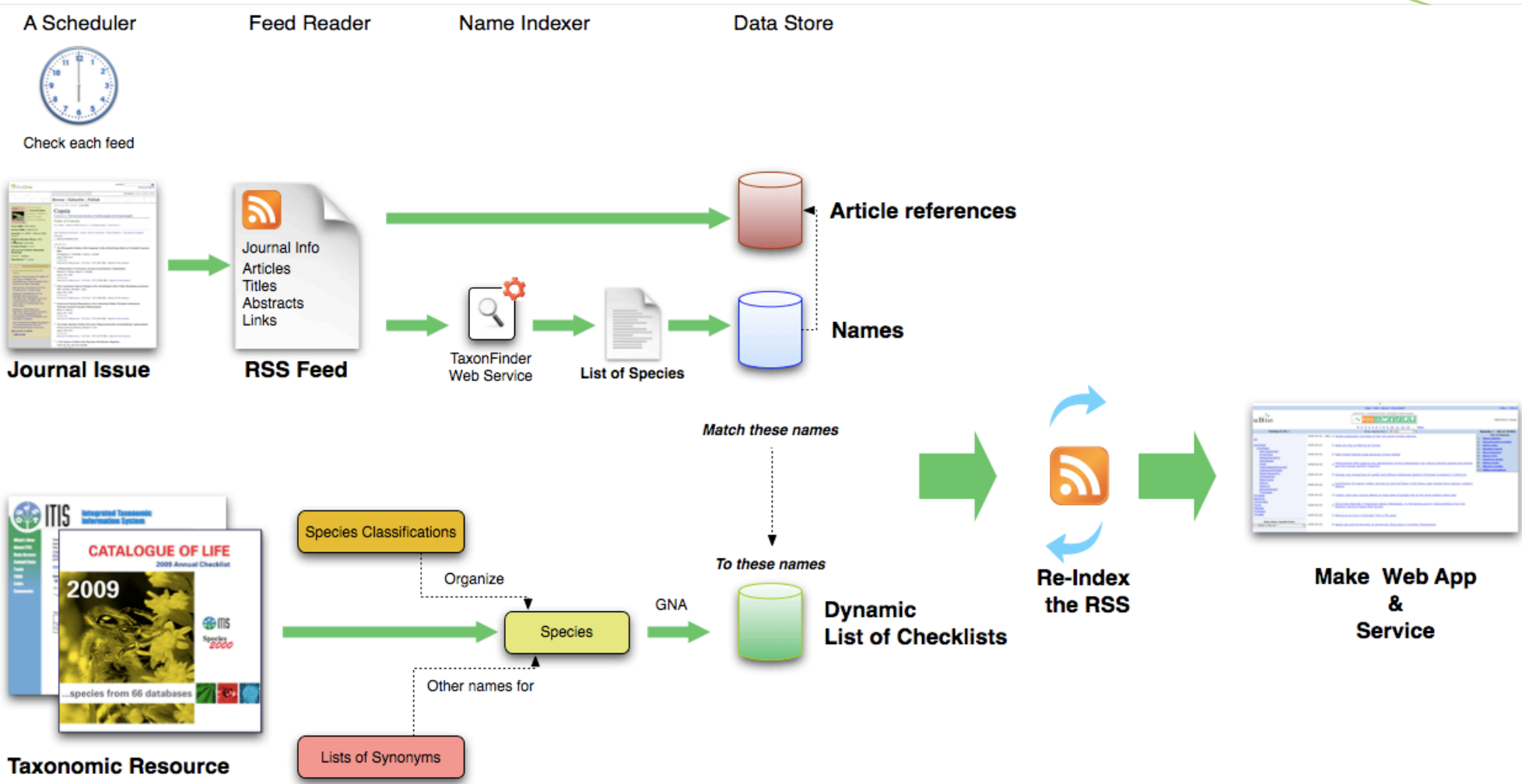


uBioRSS : Access Taxonomic Checklists



Taxonomic Resources provide the dictionaries that make TaxonFinder work

uBioRSS : Access Taxonomic Checklists



uBioRSS : Publications re-organised by taxonomy



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uBioRSS: a taxonomically intelligent feed reader



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Catalog of Life ▶

Show results from:

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Top 10 Species

- 1) [Escherichia coli](#)
- 2) [Arabidopsis thaliana](#)
- 3) [Drosophila melanogaster](#)
- 4) [Saccharomyces cerevisiae](#)
- 5) [Homo sapiens](#)
- 6) [Caenorhabditis elegans](#)
- 7) [Zea mays](#)
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- 10) [Oryza sativa](#)

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- [Archaea](#)
- [Bacteria](#)
- [Chromista](#)
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- [Plantae](#)
- [Protozoa](#)
- [Viruses](#)

This classification is based on the Species 2000 and ITIS Catalogue of Life 2007 Annual Checklist



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| 2009-06-23 | ⊕ Antiporter Antics |
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| 2009-06-23 | ⊕ 2008, Proceedings of the Pacific Coast Entomological Society |
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[Trogoniformes](#)

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2009-06-20

⊕ [Occurrence Records in Papuanian Aglaia \(Meliaceae\): A. Pannelliana and A. Puberulanthera from the Southern Karst of Papua New Guinea](#)

2009-06-19

⊖ [Expectant parents groom adult sons according to previous alloparenting in a biparental cooperatively breeding primate](#)

ScienceDirect Publication: Animal Behaviour



Publication year: 2009

Source: Animal Behaviour, In Press, Corrected Proof, Available online 18 June 2009
Anita J., Ginther, Charles T., Snowden

In the biparental, cooperatively breeding cottontop tamarin, *Saguinus oedipus oedipus*, adult sons provide an energetically and reproductively valuable service to their breeding parents by helping to carry infants. Other species may use aggressive coercion or punishment to enforce alloparenting. Yet, affiliation in primates is important in negotiating social relationships and may be exchanged for services. We hypothesized that the rewards of grooming might be used by expectant parents to cultivate strong relationships with and maintain the services of adult son alloparents. We tested for an interchange trade of aggression or grooming for infant carrying according to a biological market. Individual...

Keywords: *Acipenser transmontanus*, *Callimico goeldii*, *Callithrix jacchus*, *Callithrix jacchus jacchus*, *Callithrix kuhli*, *Euplectes orix*, *Haliotis asinina*, *Heterocephalus glaber*, *Leontopithecus rosalia*, *Macaca fascicularis*, *Macaca mulatta*, *Macaca sylvanus*, *Malurus cyaneus*, *Microcebus murinus*, *Morone chrysops*, *Morone saxatilis*, *Mungos mungo*, *Neolamprologus pulcher*, *Saguinus fuscicollis*, *Saguinus labiatus*, *Saguinus mystax*, *Saguinus oedipus*, *Saguinus oedipus oedipus*, *Suricata suricatta*

2009-06-19

⊕ [Use of landscape metrics to predict avian nest survival in a fragmented midwestern forest landscape](#)

2009-06-17

⊕ [Migratory songbird use of shade coffee in the Venezuelan Andes with implications for conservation of cerulean warbler](#)

Results 1 - 50 of 5079

Top 10 Species

- 1) [Parus major](#)
- 2) [Gallus gallus](#)
- 3) [Sturnus vulgaris](#)
- 4) [Columba livia](#)
- 5) [Taeniopygia guttata](#)
- 6) [Anas platyrhynchos](#)
- 7) [Passer domesticus](#)
- 8) [Ficedula hypoleuca](#)
- 8) [Hirundo rustica](#)
- 10) [Uria aalge](#)

Publications: Taxonomically organised

1000s of RSS feeds



100,000s of articles



125,000 species of Diptera



Re-Organized by Taxonomic Group

-  Diptera (Flies) (125,000)
-  Culicidae (Mosquitoes) 3000+
-  Aedes (Yellow fever mosquitoes) 961
-  Aedes aegypti
Stegomyia aegypti
Culex aegypti

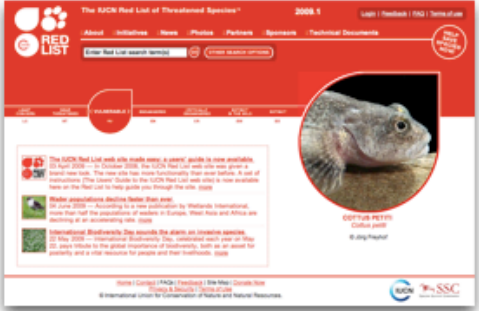


Publications: Thematically organised

1000s of RSS feeds



100,000s of articles



8241 species

Organised by Thematic Species groups



-  Endangered Vertebrates 2366 articles
-  Endangered/Threatened Birds 961 articles
-  Red-listed Hummingbirds 4 articles
-  *Eulidea yarrelli* *Chilean Woodstar* 2 articles
Myrtis yarrelli



Publications: User-defined species lists

1000s of RSS feeds



100,000s of articles

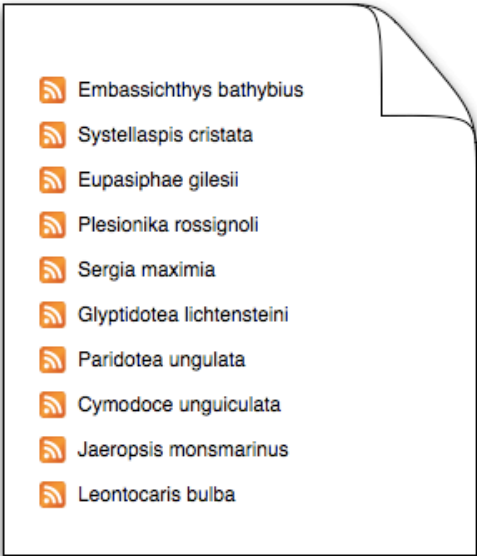


Species that live on Seamounts



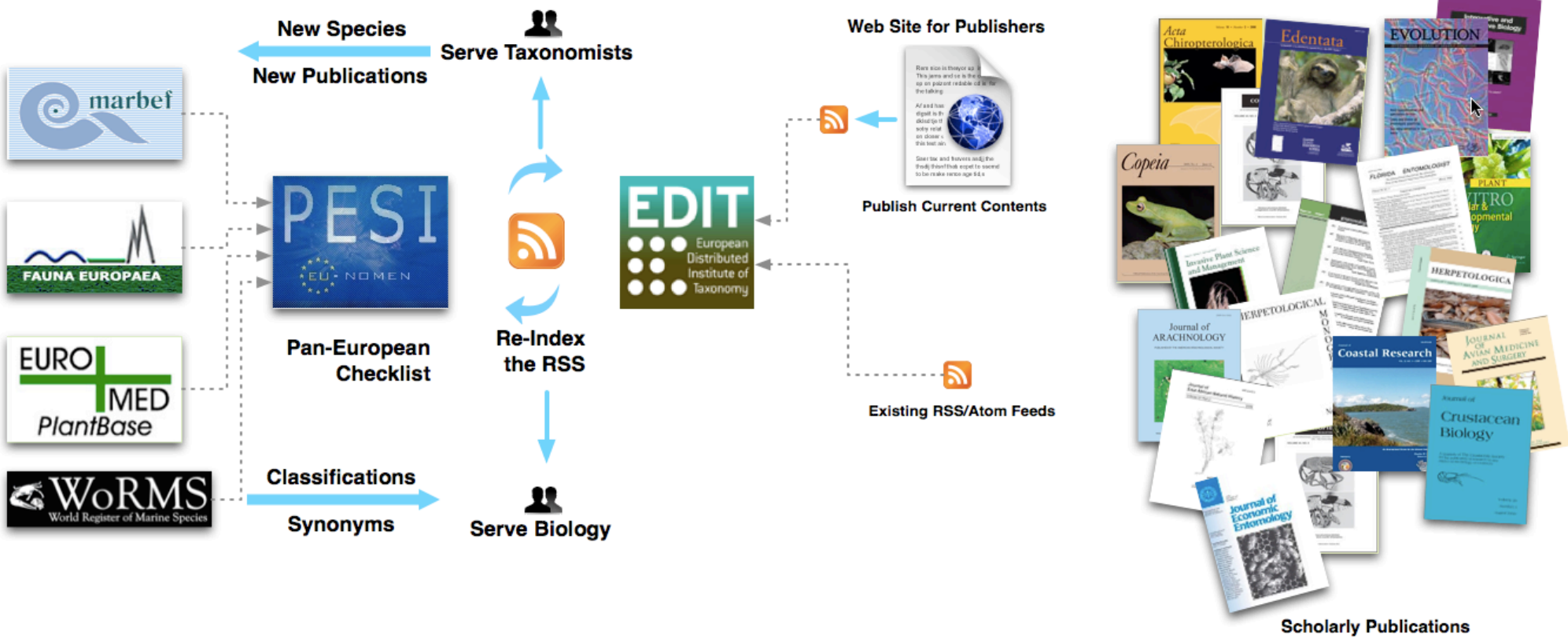
7,014 species

User-submitted species lists

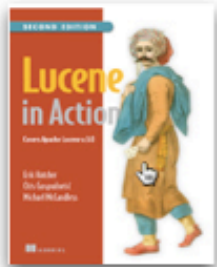


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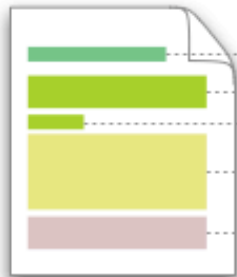


2009 Developments



Distributed processing
Indexing full journal runs
Open Source technologies
Massive pre-processing
Community Standard APIs

1 Improve the Technology



- ▶ Title
- ▶ Abstract
- ▶ Headers
- ▶ Body
- ▶ References


2 Increased granularity in Name Indexing



JOURNAL CITATION REPORTS

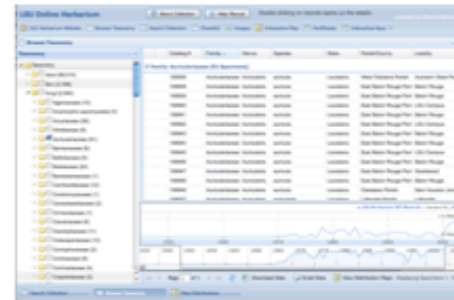
3 Better management /filtering of journals

Taxonomic Names Processing Group

Quercus bycolor 
0 1 2 3 4 5 6 7 8 9 10

<http://code.google.com/p/taxon-name-processing/>

4 Improve community coordination



5 Better interfaces and services

Thank you

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From Publications to Taxonomic databases





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Ichthyological Bulletin
 J.L.B. SMITH INSTITUTE OF ICHTHYOLOGY
 ISSN: 0073-4381
 No. 64, 1995

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BIOLINE CODE: FB95003
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Ichthyological Bulletin, No. 64, 1995

Fish community structure in three temporarily open/closed estuaries on the Natal coast
T.D. Harrison and A.K. Whitfield

ABSTRACT

The fishes of three small Natal estuaries, the Mhlanga, Damba and Zotsha were sampled over a period of two years. A total of 68 fish taxa representing 24 families, 39 genera and 55 species were captured during this study. Forty seven fish taxa were recorded in the Mhlanga estuary of w and juvenile mugilids **Mugil capensis Valenciennes, 1836**, **Mugil cephalus** and juvenile mugilids **Myxus capensis** fish taxa were recorded. **Mugil capensis** biomass captured in ichthyofauna numerical **holubi**, **Terapon** biomass in the Zotsha, **Mugil capensis**, **Mugil cephalus** and **Valamugil cunnesius**.

Classifying the species according to whether they were resident estuarine, freshwater, estuarine-dependent marine or marine species revealed that the first three groups were all well represented in the systems. **Oreochromis mossambicus** was the dominant freshwater species in all three estuaries. **Gilchristella aestuaria** and **Glossogobius callidus** were the principal estuarine species in the Mhlanga and the Damba respectively, with **Glossogobius aestuaria**, **Ambassis productus** and **Glossogobius callidus** being the dominant estuarine species captured in the Zotsha. The principal estuarine-dependent marine fishes captured in the Mhlanga were **Valamugil cunnesius**, **Valamugil** sp., juvenile mugilids, **Mugil capensis**, **Mugil cephalus** and **Liza**. In the Damba, **Mugil capensis** and **Mugil cephalus** were the dominant estuarine dependent marine species and in the

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(2009-02-27) **ScienceDirect Search: species**

Artificial mouth opening fosters anoxic conditions that kill small estuarin...

Classifying the species according to whether they were resident estuarine, freshwater, estuarine-dependent marine or marine species revealed that the first three groups were all well represented in the systems. *Oreochromis mossambicus* was the dominant freshwater species in all three estuaries. *Gilchristella aestuaria* and *Glossogobius callidus* were the principal estuarine species in the Mhlanga and the Damba respectively, with *Glossogobius aestuaria*, *A. productus* and *Glossogobius callidus* being the dominant estuarine species captured in the Zotsha. The principal estuarine-dependent marine fishes captured in the Mhlanga were *V. cunnesius*, *Valamugil* sp., juvenile mugilids, *M. capensis*, *M. cephalus* and *L. alata*. In the Damba, *M. capensis* and *M. cephalus* were the dominant estuarine-dependent marine species and in the Zotsha juvenile mugilids, *R. holubi*, *T. jarbua*, *M. capensis*, *Valamugil cunnesius*, *Valamugil robustus*, *M. cephalus*, *L. alata* and *Valamugil buchmanii* were the principal estuarine-dependent marine species.

- on-the-fly
- up-to-date