

4D4Life



Distributed Dynamic Diversity Databases for Life

Deliverable D5.1

Initial software improvements and streamlining incorporated into production of the enhanced Annual Checklist 2010, published on the web, and on CD/DVD

Workpackage 5

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Introduction.

Work Package 5 is responsible for scientific services of the Catalogue of Life, including their design, test and implementation. The D5.1 deliverable addresses the publication of a new enhanced annual edition of the Catalogue of Life using the first batch of improvements in the software and public services.

Annual Checklist 2010

The Annual Checklist 2010 (AC10) has been published on 1st April 2010 on the web (www.catalogueoflife.org/annual-checklist/2010) and on DVD (ISSN 1473-009X). It includes the new versions of the software (improved interface) and enhanced content features.

An additional feature is that in this year 2010, the International Year of Biodiversity, the Annual Checklist on DVD has been adopted by the UN Convention on Biodiversity (CBD) as one of the “celebrations” of biological diversity on Earth. The CBD Secretariat has purchased 3,500 copies for its own distribution and it will be publicly launched at the CBD’s SBSTTA meeting in Nairobi on 19 May 2010.

Enhancement of the content.

The new Annual Checklist contains 1,257,735 species integrated from 77 taxonomic databases. Through the year the checklist was increased by 97,024 species and now covers about 66% of known species diversity. Ten new databases have been added to the array of supplier databases: Brassicaceae species checklist and database, Early Land Plants Today, Global Compositae Checklist, Moss Bug Base, Neotropical Freshwater Crabs Catalogue, New Zealand Inventory of Biodiversity, PhytoseiidBase, SalticidDB, Taxapad Ichneumonoidea and TenuipalpidaeBase. 12 database supplies have been updated: Cerambycidae database, Cercopoidea Organised On Line, FishBase, Fulgoromorpha Lists On the WEB, ITIS, ITIS Bees, Lacistematidae Holistic Database, Orthoptera Species File Online, Psylloidea database, Rosaceae DB, World Checklist of Selected Plant Families and World Scarabaeidae Database.

Public access and enhanced download services.

The Annual Checklist 2010 on the web can be operated through the new version of the interface (ver. 1.5) developed by WP6 (www.catalogueoflife.org/annual-checklist/2010) or through the previous version of the interface (ver. 1.0) (<http://www.catalogueoflife.org/annual-checklist/2010v1/search.php>).

The DVD contains 3 versions of the database, each compatible with different platforms: MS Windows, Linux and MacOSX. Versions for Linux and MacOSX are new 4D4Life developments. All these versions are available for download by users from CoL and 4D4Life websites: <http://documents.sp2000.org/AC/ISOImages/AnnualChecklist2010-Win.iso>, <http://documents.sp2000.org/AC/ISOImages/AnnualChecklist2010-Linux.tar.gz>, <http://documents.sp2000.org/AC/ISOImages/AnnualChecklist2010-Mac.dmg>. In addition, a new download service for the Annual Checklist operation from a user’s USB flash drive has been developed in WP5 (www.catalogueoflife.org/annual-checklist/2010).

[checklist/2010v1/portable.zip](http://www.catalogueoflife.org/annual-checklist/2010v1/portable.zip)). The advantage of this service is that it does not require installation of the database to a hard drive. It may be operated directly from a USB flash drive occupying 2,5 Gb.

Software improvements.

The new version of the interface includes 23 improvements and bug fixes specified by WP5.

The major improvements are:

- Multi branch expandable tree (<http://www.catalogueoflife.org/annual-checklist/2010/browse/tree>) – users can open now as many branches as they need.
- Active links have been added in the presentation of Database Taxonomic Coverage – users can get species list of taxa for any node of management classification right from Database page: <http://www.catalogueoflife.org/annual-checklist/2010/details/database/id/24>
- Improved presentation of statistics in Database Details and Search Results: <http://www.catalogueoflife.org/annual-checklist/2010/details/database/id/44> and <http://www.catalogueoflife.org/annual-checklist/2010/browse/classification/kingdom/Plantae/genus/trifolium/match/1>
- Indication of Group (kingdom) name in Search Results has been added: <http://www.catalogueoflife.org/annual-checklist/2010/search/all/key/alfalfa/match/1>
- Navigation tool has been improved: <http://www.catalogueoflife.org/annual-checklist/2010/search/all/key/bombus/match/1>
- Presentation of logos has been improved
- Severe bugs in presentation of common names have been fixed. New style of common name presentation has been introduced (<http://www.catalogueoflife.org/annual-checklist/2010/details/species/id/7606340>)

The new code of the interface was developed by WP6 and the interface was designed, tested and approved by WP5.

Conclusion.

WP5 team delivered 2010 Annual Checklist for public use including improved software and related services. Deliverable D5.1 is completed.