



Project no. 018340

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Instrument: Network of Excellence

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M5.21a Operational specimen web portal

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Revision: final

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Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

M5.21a Operational specimen web portal

Introduction

Since 2001, the GBIF (Global Biodiversity Information Facility) has been networking worldwide biodiversity data and making them freely available on the Internet. Currently, more than 150 million records (from simple occurrence data to highly structured specimen observation) are indexed by GBIF and accessible through several web portals. Almost all records available via these systems include the Latin name of the organism; which is used as a primary search term.

The scientific names provided by the data sources may include synonyms. For the GBIF Index, these are referred to accepted names in the indexing process, using checklists such as the Catalogue of Life (Froese and Bisby 2002). Users can only access records by searching the accepted name or the synonym referenced by the checklists used.

Search results could be significantly improved with a thesaurus system that allows for user-controlled expansion of query terms to synonyms, related taxa in the taxonomic hierarchy and related taxonomic concepts from additional checklists.

In the context of the SYNTHESYS project (Networking Activity D) a checklist-driven access to European collection and observation data was developed, the “TOTO prototype” (see <http://search.biocase.org/toto>). TOTO is capable of taking Latin names and expanding them with related query terms from a taxonomic thesaurus (checklist). EDIT has taken TOTO and the BioCASE portals (see <http://search.biocase.org>), further developed and integrated them into a search portal providing a new GBIF-data explorer for taxonomist. This new EDIT portal is giving users full control of the query expansion process.

Implementation

The Botanic Garden and Botanical Museum Berlin-Dahlem is responsible for the implementation of an access interface tailored to taxonomist's needs, building on the specimen access software (interfaces and generic thesaurus access) developed by the BioCASE and SYNTHESYS projects.

Available in 11 languages, this new tool provides users with fast and easy-to-use access to worldwide biodiversity data, and offers full control over taxonomic query expansion. Users can choose which thesauruses to use; choose to include or exclude types of relationships (synonyms, related taxa in the taxonomic hierarchy, and related taxonomic concepts such as misapplied names); and individually mark or unmark discovered “related” names for inclusion in the search.

The portal accepts one or more Latin names, suggests related query terms for both zoological and botanical data, expands the query accordingly and offers complete BioCASE portal functionality for resulting specimen and observation data. It can be accessed under <http://search.biocase.org/edit>.

Currently (July 2008), the EDIT data explorer for taxonomists uses the following sources for query expansion:

- “Euro+Med Plantbase” - an information resource for Euro-Mediterranean plant diversity
- “European Register of Marine Species” - an authoritative taxonomic list of species occurring in the European marine environment
- “Fauna Europaea” - a database of scientific names and distribution of all living multicellular European land and fresh-water animals
- “German standard checklist” - the standard list of the ferns and flowering plants of Germany
- “Reference list for the German Bryophytes”

Since a standard interface for taxonomic thesauri is used, this list can be expanded with relatively little effort.

As a next step in the development driven by EDIT, users will have the option to save the full data received from their queries in a CDM (EDIT Common Data Model) database and thus use them in the context of the EDIT Platform for Cybertaxonomy.

EDIT SPECIMEN AND OBSERVATION EXPLORER FOR TAXONOMISTS

Home » Search » Units Preferences Help

Search for units (specimens and observations)

Search

Simple search
Advanced search

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Advanced search

Use at least 3 characters Use the asterisk (*) as a wildcard. Examples: [...]

Taxon name: Calendula

Country: Calendula (248)

Collection ID: Calendula aegyptiaca (25)

Institution ID: Calendula aegyptiaca subsp. tripterocarpa (2)

Unit-ID: Calendula aegyptiaca var. microcephala (1)

Genus: Calendula aegyptiaca var. suberostris (1)

Family: Calendula alata (3)

Higher taxon

Common name

Locality

Collector

Collection year: between and

Collector's number

Field number

If you would like to add a second value to a field that you have already populated with the su from the "Choose Field" list, enter your value, and click "Add".

Choose field

Options:

☐ Multimedia

Only records based on: any

Sort results by: Taxon name

Expand search to related names and synonyms ☒

Use:

German standard checklist url

☒ BfN - FloraWeb DB (2003)

☒ Wisskirchen & Haeupler (1998)

Reference list for the German Bryophytes url

☒ Koperski & al.

European Register of Marine Species url

☒ European Register of Marine Species

Euro+Med Plantbase url

☒ Compositae Greuter

☒ Euro+Med preliminary checklist

Fauna Europaea url

☒ Fauna Europaea

☐ Extra search (what is it?)

Close

Search **Reset**

Illustration 1: EDIT Specimen and observation explorer for taxonomists - advanced search

EDIT European Distributed Institute of Taxonomy

SPECIMEN AND OBSERVATION EXPLORER FOR TAXONOMISTS

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Specimen and observation search options
☒ Synonyms
☒ Related concepts
☐ Tax. hierarchy
☒ Misapplied names
References
☒ Compositae Greuter
☒ Euro+Med preliminary checklist
Search!


Thesaurus response
Euro+Med Plantbase: 7 misapplied name(s) result(s); 3 taxonomic hierarchy result(s); 44 synonym(s) result(s);

Searched name(s)
☒ *Calendula aegyptiaca*


According to Euro+Med Plantbase
 ★ **Synonym:** *Calendula aegyptiaca* Pers. [ref: Compositae Greuter]
 ★ **Accepted name:** *Calendula arvensis*
☒ *Calendula arvensis*
☐ **Misapplied name(s)**
 ★ has the misapplied name(s):
☒ *Calendula tripterocarpa* [source]
☒ *Calendula stellata* [source]
☐ **Taxonomic hierarchy**
 ★ is taxonomically included in:
☐ *Calendula* L. [source]
☐ **Synonym(s)**
 ★ has the homotypic synonym(s):
☒ *Caltha arvensis* Vaill. [source]
☒ *Calendula officinalis* subsp. *arvensis* Fiori [source]
 ★ has the synonym(s):
☒ *Calendula persica* subsp. *gracilis* [source]

Willkomm, M. & Lange J. - Prodrum florae hispanicae 2 Stuttgart 1865-1870.
Willkomm, M. - Supplementum Prodrum florae hispanicae 2 Stuttgart 1893.

Illustration 2: EDIT Specimen and observation explorer for taxonomists: control of the query expansion to related names and synonyms



SPECIMEN AND OBSERVATION EXPLORER FOR TAXONOMISTS

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Search

[Simple search](#)
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Registry

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Record basis:

not specified:	997
observation:	1,177
specimen:	1,115
type specimen:	6
Number of units:	3,295


Preview (Show/Hide query)

3,295 matching units (specimens and observations).

Select the data you are interested in (using the checkboxes)

Sc.Names	HigherTaxa	Genus	Family	Common	Country	Collector	Institution	Collection	Basis
Select/Deselect all data									
<input checked="" type="checkbox"/>									
Calendula aegyptiaca (25 unit(s))									
<input checked="" type="checkbox"/>									
Calendula alata (3 unit(s))									
<input checked="" type="checkbox"/>									
Calendula arvensis (3117 unit(s))									
<input checked="" type="checkbox"/>									
Calendula bicolor (6 unit(s))									
<input checked="" type="checkbox"/>									
Calendula echinata (1 unit(s))									
<input checked="" type="checkbox"/>									
Calendula malacitana (7 unit(s))									
<input checked="" type="checkbox"/>									
Calendula micrantha (1 unit(s))									
<input checked="" type="checkbox"/>									
Calendula persica (4 unit(s))									
<input checked="" type="checkbox"/>									
Calendula sancta (9 unit(s))									
<input checked="" type="checkbox"/>									
Calendula stellata (61 unit(s))									
<input checked="" type="checkbox"/>									
Calendula sublanata (2 unit(s))									
<input checked="" type="checkbox"/>									
Calendula tripterocarpa (59 unit(s))									

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BIODIVERSITY
INFORMATION
FACILITY

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Illustration 3: EDIT specimen and observation explorer for taxonomist: access to units data from the GBIF index