

PALMWEB DESCRIPTION AND FUNCTIONAL REQUIREMENTS. (VER.1.1-MARCH 2007)

Palmweb is a portal for information on the diversity of the palm family (Arecaceae or Palmae). It is designed to be:

- a web-based source of authoritative taxonomic information and related data
- a tool to facilitate collaboration among palm experts and a mechanism for efficient dissemination of their research
- a virtual focal point for anyone interested in palm diversity

This document describes the content, main uses and functionality required to achieve these aims. Currently, we are prioritising content structure and presentation. The requirements for the collaborative platform, which would include content contribution and quality control mechanisms, among other functions, have not yet been fully determined, but will be presented in future versions of this requirements document.

Displaying high-quality content is the immediate objective of Palmweb and, therefore, this document lists the functional requirements which must be fulfilled by a software system in order to allow Palmweb user to browse, search and download content from Palmweb. To encourage participation and contribution to Palmweb, functions for registration and communication with Palmweb developers are also required from the start. As the project advances, some of the features and requirements specified here may change.

C O N T E N T S

DESCRIPTION OF PALMWEB

Users

Main uses of the website

Content

Interaction with other websites.

FUNCTIONAL REQUIREMENTS

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Use Case 2 Download content.

Use Case 3 Register.

Use Case 4 View personal page

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DIAGRAMS

Main public pages in Palmweb.

Main private pages in Palmweb (for members).

MOCKS

Description of Palmweb

Users

Every person using Palmweb is a user. Upon registration, users become members.

Main uses of the website

Palmweb will provide authoritative information about palms. Users will be able to:

- retrieve information from the website by browsing and searching
- download information
- register
- contribute content through Palmweb developers

Users will be able to browse through a palm classification tree and search according to a single or multiple criteria. Scientific name, common name and distribution will be the essential search criteria, although other desirable criteria are habitat, uses and conservation status. Depending on the user's choice, the result of a search may be a checklist or an index of images, both with links to taxon and image pages.

The content of the pages in Palmweb will be downloadable as a pdf file. The option to download only text will be available.

Mechanisms for content contribution, editing, quality control and review will be developed in future versions of Palmweb. Initially, contributions may be submitted through Palmweb developers.

Content

Most content will be concentrated in the taxon pages, primarily genus and species pages. Some options will be specific for a rank (e.g. keys will be displayed in the genus page, but not the species page). The taxon page will give access to the taxonomy for a taxon and links to other websites. The nomenclatural backbone of Palmweb will be obtained from the World Checklist of Monocotyledons. Further content will be added from published taxonomic treatments. Initially, the Palmweb developers will maintain editorial responsibility. It is hoped, however, that the palm expert community will ultimately assume and share this role.

In general, the content in Palmweb for a palm taxon will include:

- Classification (automatically generated by the system)
- Nomenclature (from World Checklist of Monocotyledons)
- Accepted species (from World Checklist of Monocotyledons)
- Synonyms (from World Checklist of Monocotyledons)
- Taxonomic treatments.

The priorities are the most recent/recommended treatment and the protologue. Other treatments will be incorporated in the content as time permits.

- Distribution (from taxonomic treatments and TDWG codes)
- Ecology (from taxonomic treatments)
- Uses (from taxonomic treatments)
- Images (from taxonomic treatments and other sources)

A gallery that will include all the photos, illustrations and maps associated with a taxon name.

- Phylogenetic information (sources to be determined)
- Bibliography (sources to be determined)
- Keys
- Molecular data (from Genbank)
- Other data
- Specimens (from GBIF and other specimen databases)
- Alternative hypotheses
- Credits

Synonym pages will show only a link to the valid name.

Preliminary examples for a genus and a species can be seen at <http://www.palmweb.org/index.htm>
The mocks in the ppt file show the first screen for a taxon page.

Interaction with other websites.

Initially data from the WCM will be taken statically, but in a later stage Palmweb should communicate dynamically with the WCM, either directly or via a webservice. A dynamic connection should be also

established with GBIF, or other specimen databases, but at the moment only hard coded links will be possible in some cases. GenBank provides webservices that may be used in Palmweb.

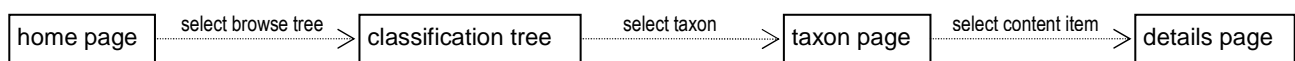
Functional Requirements

The process of accessing and downloading content does not require registration and is described in Use Cases 1 and 2. Users' registration is described in Use Case 3. Members of Palmweb will be able to modify their personal information and send documents with content to be processed and incorporated in Palmweb. These actions are described in Use Cases 4 and 5.

Use Case 1 Retrieve information about a taxon or a member.

Use Case 1.a Browse the classification tree.

The accepted classification will be displayed as expandable/collapsible blocks that contain the nested hierarchy of parent-child taxa. The user selects a taxon and is directed to the taxon page. From there, the user may go to a child taxon page or detailed content subpages for that taxon. The content of the taxon page is described in the first part of this document.



Use Case 1.b Search by scientific name.

In the search form the user enters the scientific name. The application will display the list of taxa found. Wildcard characters will be allowed to search for partial names.

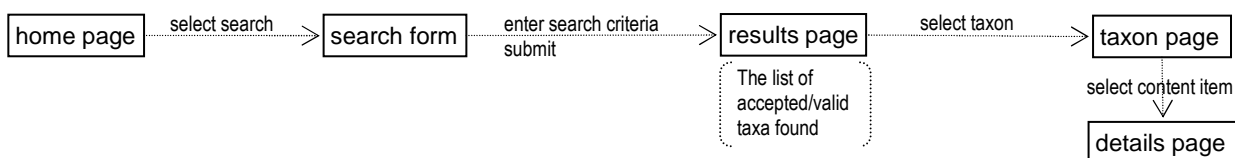
Use Case 1.c Search by common name.

The user may specify if the name to search is a common name.

Use Case 1.d Search by region/locality.

In the search form the user may specify a region either by entering a place name in the text field or by selecting one from the drop-down list or by. The drop-down list will display regions according to TDWG categories. The user may specify the taxon name. In case the name field is left blank, the system will display a list of all taxa in that region/locality.

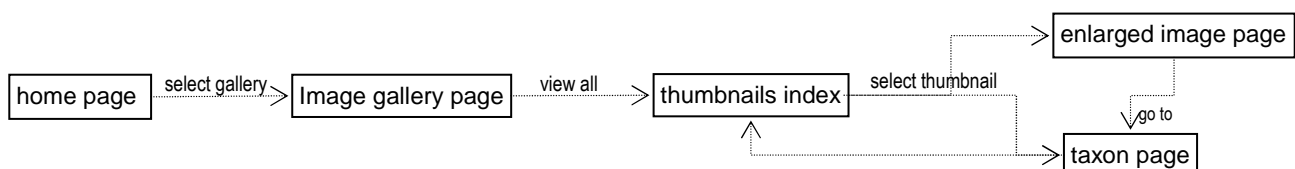
All search cases 1.b – 1.d follow this general path:



Other desirable search criteria are habitat, uses and conservation status.

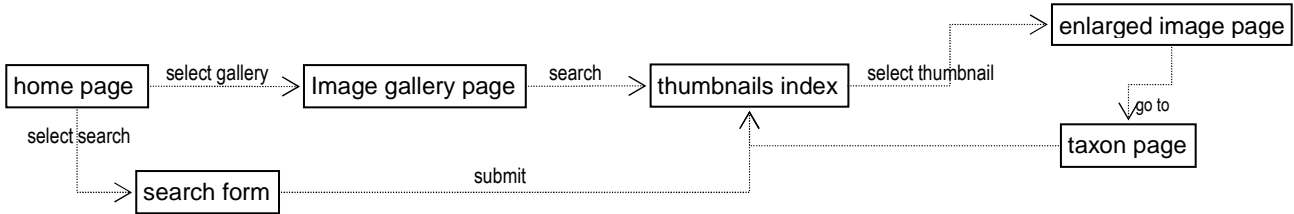
Use Case 1.e Browse images.

The image gallery page will display an index of thumbnails identified with a short image title. The user will be able to enlarge the image and see its metadata or go to the page of the taxon the image refers to.



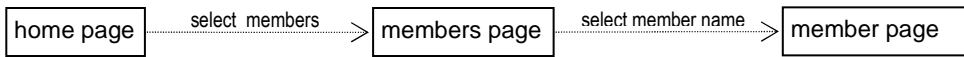
Use Case 1.e Search image gallery.

The image search will be accessible from both the search page and the image gallery page. The user will be able to search by taxon name, image category (photo, illustration, etc), locality and/or author.



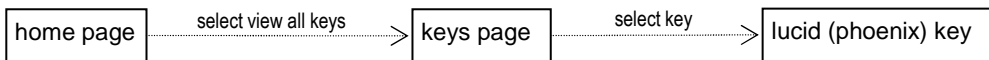
Use Case 1.g Browse the members page.

The members page will display a list of all members. Selecting a name in the list opens the page for that member, which will show the member’s identification data and a list of the contributions the member has submitted to Palmweb.



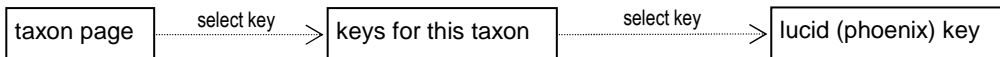
Use Case 1.h Browse identification keys.

The user selects the keys link in the home page. The system produces a list of all available keys. The user selects one and applies it.



Use Case 1.i Use specific identification key.

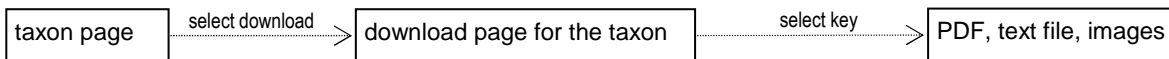
Alternatively, the user may go to the taxon page and use the key for that specific taxon, if available.



Use Case 2 Download content.

Use Case 2.a Download data for a taxon.

In the taxon page the user selects download content. A form opens with checkboxes to select the content to download (descriptions, distribution maps, images, etc). The selected content is saved as a pdf or a text file.



Use Case 2.b Download descriptions for several taxa.

In the home page the user selects a link to download content. The system displays a list of the taxa. The user selects all taxa to download and the application compiles a pdf or a text file.



Use Case 3 Register.

Use Case 3.a New member

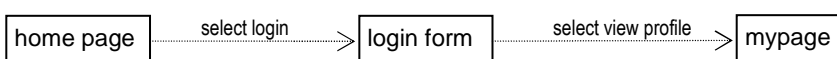
The user selects register from the main menu. The system displays the registration form and sends a message to a Palmweb developer to authorize the new registration.

Use Case 3.b Member unregisters

The member selects register from the main menu. The system displays unregister button.

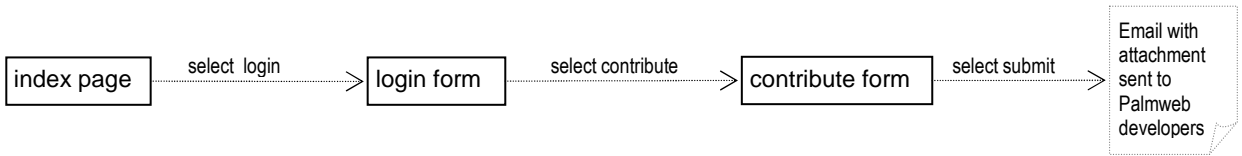
Use Case 4 View personal page

Once logged-in, a member may access his/her own member page and edit his/her personal information.



Use Case 5 **Contribute content**

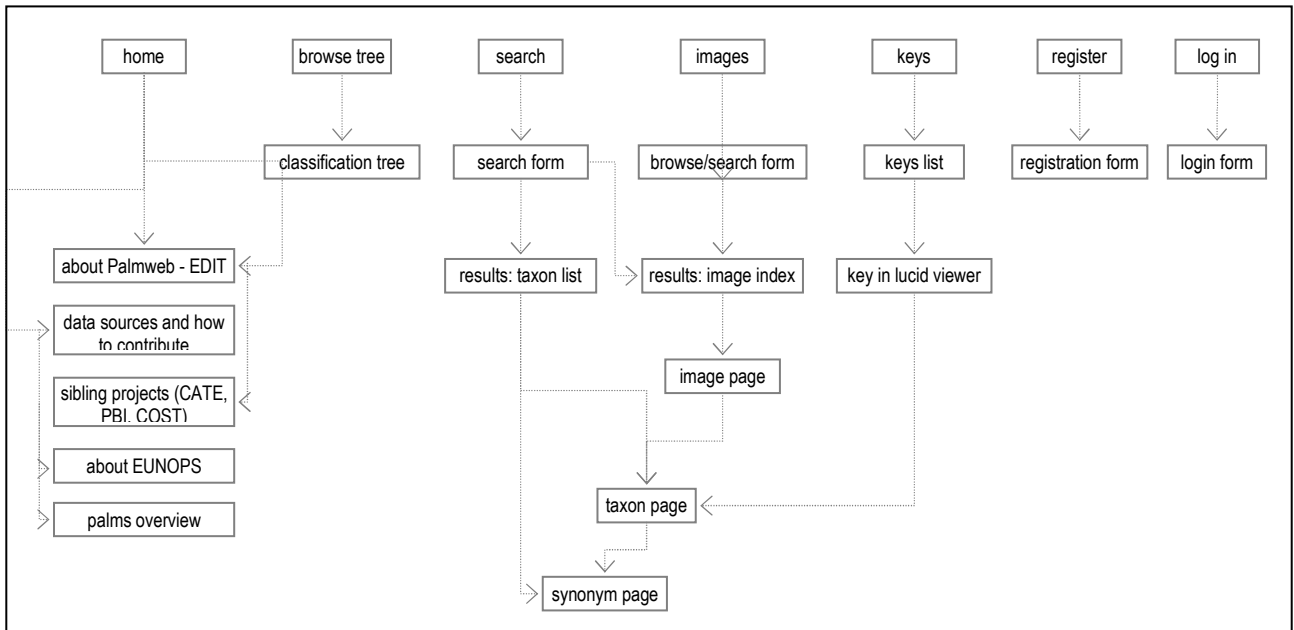
Once logged-in, a member will be able to send a document with a contribution. The member selects contribute in the context menu. The system opens a form partially filled with the user name of the member. The form has a text field for the member to fill out metadata about the content to be contributed and a button to send a file to Palmweb developer. The system sends and email with the file attached to the developer.



Diagrams

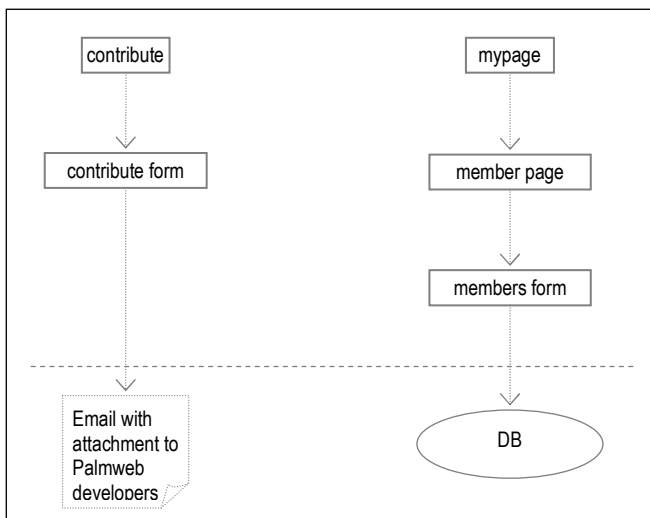
Main public pages in Palmweb.

Warning and error message pages not in the diagram (e.g. no matches found page, etc).



Main private pages in Palmweb (for members).

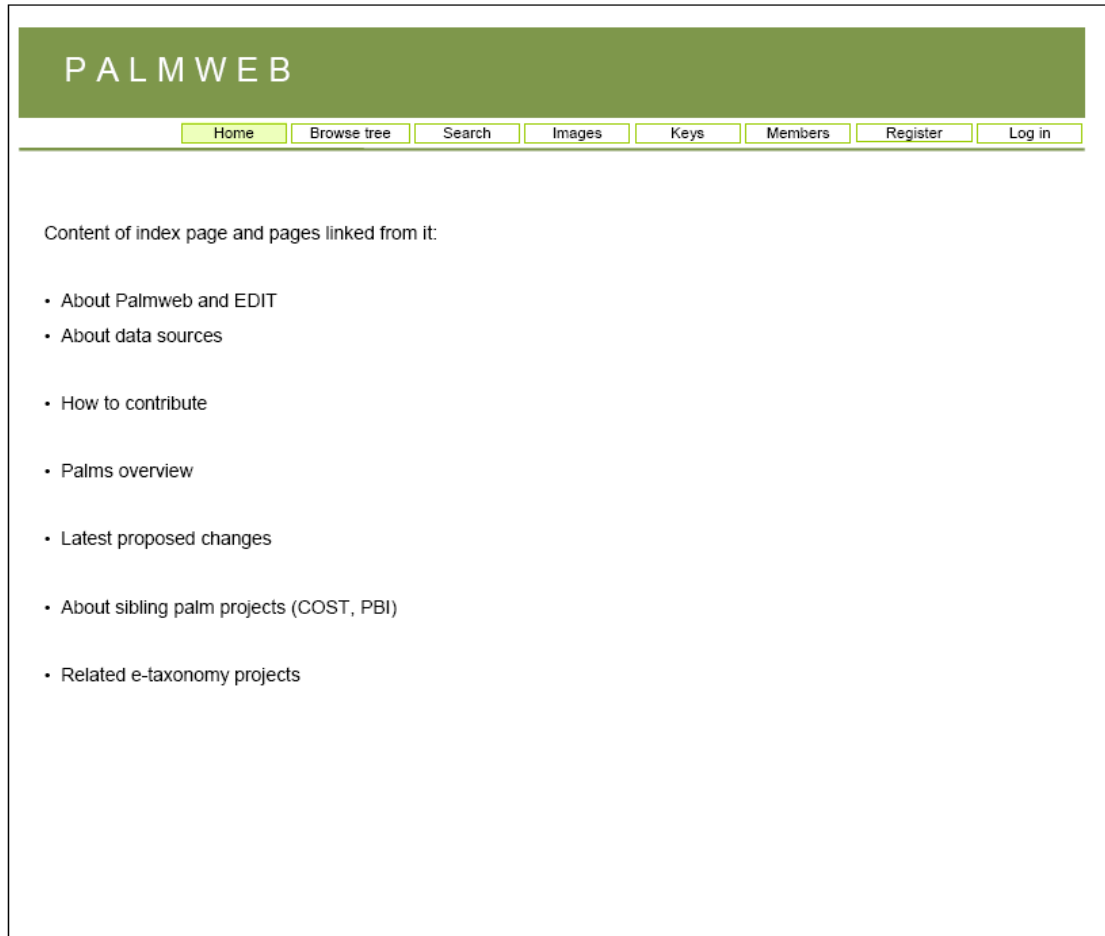
Warning and error message pages not in the diagram (e.g. access denied page, wrong login , etc).



Mocks

The following images are screenshots of some of the pages in Palmweb. The detailed content in the taxon pages is not shown in these mocks. Preliminary examples of the taxon pages can be seen at <http://www.palmweb.org/index.htm>

Home page



Home page

with member's context menu, visible after member authentication

PALMWEB

Home Browse tree Search Images Keys Members Register Log in

User: PalmwebUser Date: 30/02/0000 **Contribute My page**

Content of index page and pages linked from it:

- About Palmweb and EDIT
- About data sources
- How to contribute
- Palms overview
- Latest proposed changes
- About sibling palm projects (COST, PBI)
- Related e-taxonomy projects

Browse classification tree page

PALMWEB

Home Browse tree Search Images Keys Members Register Log in

Palms classification

- ⊕ Calamoideae
- ⊕ Nypoideae
- ⊕ Coryphoideae
- ⊕ Ceroxyloideae
- ⊖ Arecoideae
 - ⊕ Iriarteae
 - ⊕ Chamaedoreae
 - ⊕ Podococceae
 - ⊕ Oranieae
 - ⊕ Sclerospermeae
 - ⊕ Roystoneae
 - ⊕ Reinhardtiae
 - ⊕ Cocoseae
 - ⊕ Manicariae
 - ⊕ Euterpeae
 - ⊕ Geonomateae
 - ⊕ Leopoldinieae
 - ⊕ Pelagodoxeae
 - ⊖ Arecaceae
 - ⊕ Archontophoenicinae
 - ⊕ Arecinae
 - ⊕ Basselininae
 - ⊕ Carpoxylinae
 - ⊕ Clinospermatinae
 - ⊖ Dypsininae
 - ⊕ Dypsis
 - ⊕ Lemurophoemix
 - ⊕ Marojejva
 - ⊕ Masoala
 - ⊕ Linospadicinae
 - ⊕ Oncospermatinae
 - ...

Search form

PALMWEB

[Home](#) | [Browse tree](#) | [Search](#) | [Images](#) | [Keys](#) | [Members](#) | [Register](#) | [Log in](#)

Content search

Name

check if common name

Locality or TDWG Region

Habitat

Conservation status

Uses

Image search

Name

Category

Locality

Author

Results page

search content:

taxon name
Dypsis

PALMWEB

[Home](#) | [Browse tree](#) | [Search](#) | [Images](#) | [Keys](#) | [Members](#) | [Register](#) | [Log in](#)

141 results found for : **Dypsis**

- Dypsis acaulis* J.Dransf.
- Dypsis acuminum* (Jum.) Beentje & J.Dransf.
- Dypsis ambanjae* Beentje
- Dypsis ambilaensis* J.Dransf.
- Dypsis ambositrae* Beentje
- Dypsis ampasindavae* Beentje
- Dypsis andapae* Beentje
- Dypsis andrianatonga* Beentje
- Dypsis angusta* Jum.
- Dypsis angustifolia* (H.Perrier) Beentje & J.Dransf.
- Dypsis ankaizinensis* (Jum.) Beentje & J.Dransf.
- Dypsis antanambensis* Beentje
- Dypsis aquatilis* Beentje
- Dypsis arenarum* (Jum.) Beentje & J.Dransf.
- Dypsis baronii* (Becc.) Beentje & J.Dransf.
- Dypsis basilonga* (Jum. & H.Perrier) Beentje & J.Dransf.
- Dypsis beentjei* J.Dransf.
- Dypsis bejofo* Beentje
- Dypsis bernierana* (Baill.) Beentje & J.Dransf.
- Dypsis betamponensis* (Jum.) Beentje & J.Dransf.
- Dypsis boiviniana* Baill.*Dypsis bonsai* Beentje
- Dypsis bosseri* J.Dransf.
- Dypsis brevicaulis* (Guillaumet) Beentje & J.Dransf.
- Dypsis cabadae* (H.E.Moore) Beentje & J.Dransf.
- Dypsis canaliculata* (Jum.) Beentje & J.Dransf.

[<< refine search](#) [<< 1 ... 5 >>](#)

Image gallery page

PALMWEB

Home
Browse tree
Search
Images
Keys
Members
Register
Log in

Image search

Name

Category




Locality




Author




Browse

Select taxon

Select locality















Results page
 search images
 criteria:
 taxon name
Dypsis
 category
 photo
 locality
 Madagascar

PALMWEB

Home
Browse tree
Search
Images
Keys
Members
Register
Log in

170 results found for : **Dypsis, Madagascar**








[<< new search](#)
 [<< refine search](#)
 [<< 1 ... 12 >>](#)

Enlarged image page

PALMWEB

[Home](#) | [Browse tree](#) | [Search](#) | [Images](#) | [Keys](#) | [Members](#) | [Register](#) | [Log in](#)



Dypsis

Locality: Madagascar

Author

Date

Habitat

Notes

Copyright

[<< back to image index](#)

[<< new search](#)

Keys page

PALMWEB

[Home](#) | [Browse tree](#) | [Search](#) | [Images](#) | [Keys](#) | [Members](#) | [Register](#) | [Log in](#)

Keys

The keys require Lucid viewer ([download free](#))

Dransfield and Beentje 1995. *Palms of Madagascar*

- Key to Dypsidinae genera
- Key to Dypsis species
- Key to

Authors..... *Title*.....

- Key to

Members page

PALMWEB

Home
Browse tree
Search
Images
Keys
Members
Register
Log in

Members
 Palmweb is formed by a network of members who may participate in improving the website.

- PalmwebUser
- Maria
- Petra
- Juanito
-

How to contribute.
 All members may provide content for Palmweb. At the moment members may participate in Palmweb by sending contributions to Palmweb developers.
[Find out more >>](#)
[Register](#)

A member's page

PALMWEB

Home
Browse tree
Search
Images
Keys
Members
Register
Log in

Member: **PalmwebUser**

Position

Institution

email

webpage

- Interests, work in progress

- Contributions to Palmweb

- Revision of the genus
- Monograph

Registration page

PALMWEB

Home
Browse tree
Search
Images
Keys
Members
Register
Log in

Register in Palmweb

Name

Lastname

Position

Institution

email

webpage

By registering in Palmweb you will be able to contribute content. Your participation is welcome and appreciated. blablalba

Contribution form page

PALMWEB

Home
Browse tree
Search
Images
Keys
Members
Register
Log in

User: PalmwebUser Date: 30/02/0000

Contribute
My page

Contribute content

Introduce the title of the document you are contributing and a brief description of its content. Then attach the file and send it to the developers. Once the document you send is processed and incorporated into Palmweb, your contribution will be listed in you personal page.

Title:

Brief description

B I U

File

Mypage

PALMWEB

Home
Browse tree
Search
Images
Keys
Members
Register
Log in

User: PalmwebUser Date: 30/02/0000 [Contribute](#) [My page](#)

My page: PalmwebUser

| | |
|---|--|
| Name <input type="text" value="Palmweb"/> | Lastname <input type="text" value="User"/> |
| Position <input type="text"/> | Institution <input type="text"/> |
| email <input type="text"/> | webpage <input type="text" value="www.website.com"/> |

Interests, work in progress

Free text field


Contributions to Palmweb

Revision of the genus
 Monograph

Genus page

PALMWEB

Home
Browse tree
Search
Images
Keys
Members
Register
Log in



Family **Arecaceae**
 Subfamily **Arecoideae**
 Tribe **Areceae**
 Subtribe **Dypsidinae**

Dypsis

Noronha ex Mart.

Accepted by *Govaerts and Dransfield* 2005. Online World Checklist of Palms

Lectotype: *Dypsis forficifolia*

Accepted species
Synonyms
Taxonomic treatments
Distribution
Ecology
Phylogeny
Uses
Key
Images
Bibliography
Alternative hypotheses
Other data

See other websites.


[Molecular data \(Genbank\) >>](#)

[Specimens \(GBIF\) >>](#)

Species page

PALMWEB

Home
Browse tree
Search
Images
Keys
Members
Register
Log in



Family *Arecaceae*
 Subfamily *Arecoideae*
 Tribe *Areceae*
 Subtribe *Dypsidinae*
 Genus *Dypsis*

Dypsis forficifolia

Noronha ex Mart.

Accepted by Govaerts and Dransfield 2005. Online World Checklist of Palms

Type:

Other species in the genus
Synonyms
Taxonomic treatments
Distribution
Ecology
Phylogeny
Uses
Key
Images
Bibliography
Alternative hypotheses
Other data

See other websites.

[Molecular data \(Genbank\)](#) >>

[Specimens \(GBIF\)](#) >>

Synonym page

PALMWEB

Home
Browse tree
Search
Images
Keys
Members
Register
Log in

Chrysalidocarpus is a synonym of ***Dypsis***

Not accepted by:

[<< back](#)