

DCCD tree-ring archive
<http://dendro.dans.knaw.nl>

Manual



**Digital Collaboratory for
Cultural Dendrochronology**

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Introduction

The dendrochronological data infrastructure DCCD consists of (a) tree-ring data standard TRiDaS; (b) software for interaction with the DCCD repository; (c) the DCCD repository; and (d) digital forums for communication, research, education and outreach. This manual describes how to use the DCCD repository.

The DCCD repository is an international and interactive digital library of tree-ring data situated at *Data Archiving and Networked Services* (DANS-KNAW) and accessible at <http://dendro.dans.knaw.nl>. Its content is developed through research of, among others, archaeological and palaeo-ecological sites, ship wrecks, buildings, mobile heritage (e.g. furniture, paintings) and living trees.

The DCCD repository uses the International Tree-Ring Data Standard TRiDaS for data storage (Jansma et al. 2010). It allows for conversion of other widely-used data formats using the dendrochronological data-conversion library TRICYCLE (Brewer et al. 2011). It contains digital tree-ring measurement series and average 'derived series', as well as descriptive and interpretative metadata and associated files (e.g. research reports).

The user interface of the DCCD repository allows users to upload and download content, to edit metadata on line, to manage data access and to perform queries of the content. The DCCD repository conforms to EU best practices regarding the long-term preservation of digital research data.

The DCCD repository is a product of the research-infrastructure project Digital Collaboratory for Cultural Dendrochronology (DCCD) managed by Prof.dr. E. Jansma and was funded by the Netherlands Organization for Scientific Research (NWO, domain of The Humanities) and the Netherlands Cultural Heritage Agency (Rijksdienst voor het Cultureel Erfgoed). Utrecht University provided a Virtual Knowledge Centre (VKC) for DCCD-related communication and collaboration (www.uu.nl/vkc/dendrochronology).

Please cite the following paper when referring to the DCCD: Jansma, E., R.J. van Lanen, P.W. Brewer & R. Kramer (in press): The DCCD: A digital data infrastructure for tree-ring research. *Dendrochronologia* (2012), <http://dx.doi.org/10.1016/j.dendro.2011.12.002>.

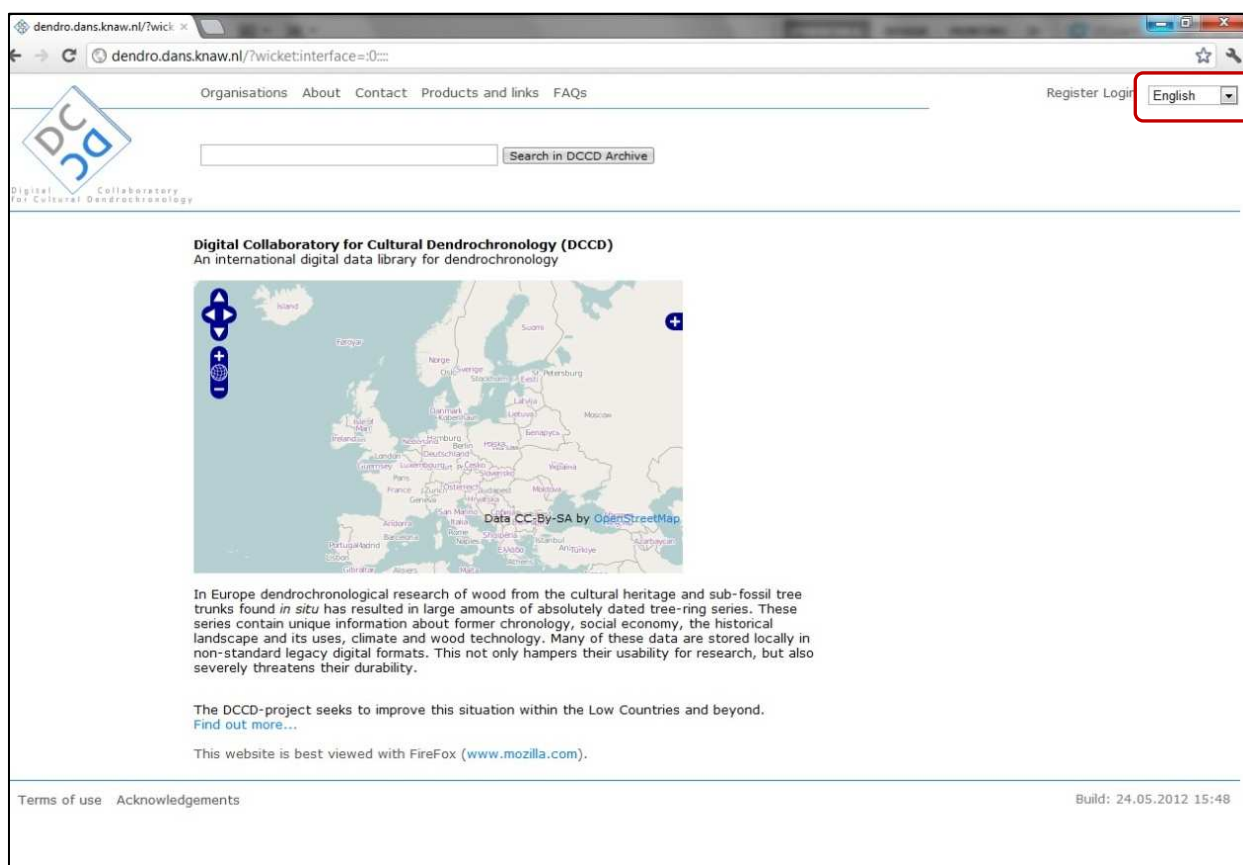
This manual has been written with great care, nonetheless errors and/or mistakes are inevitable. Any questions, ideas or additions to this manual or the DCCD in general are more than welcome and can be sent to e.jansma@cultureelerfgoed.nl.

DCCD visitors

The DCCD repository is an online digital library of tree-ring data and metadata, which lets its data contributors manage the access to their archived projects. Data contributors can alter default levels of data access and can adapt permissions for selected DCCD members at any time. Non-members can see and query public metadata, but cannot access deeper information levels.

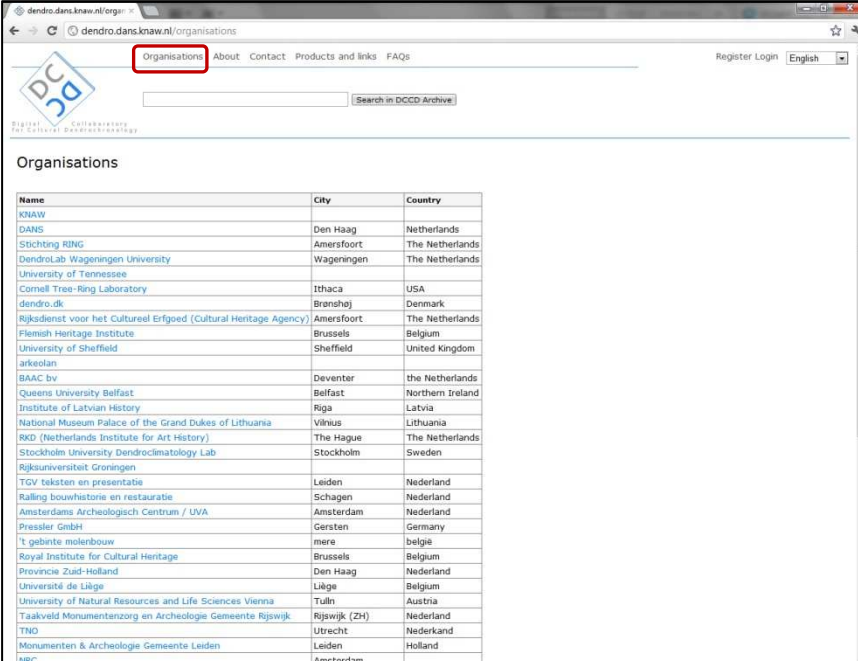
DCCD homepage

The DCCD homepage at <http://dendro.dans.knaw.nl> is depicted below. It consists of several tabs and query possibilities, as well as links to background information and related websites. The default language of the DCCD is determined automatically using your computer settings, and can be changed using the “language” tab (top right). At present users can choose between Dutch, English, French or German. Note: most translations of the DCCD web pages are made automatically and therefore the texts may contain stylistic inaccuracies.



“Organizations” tab

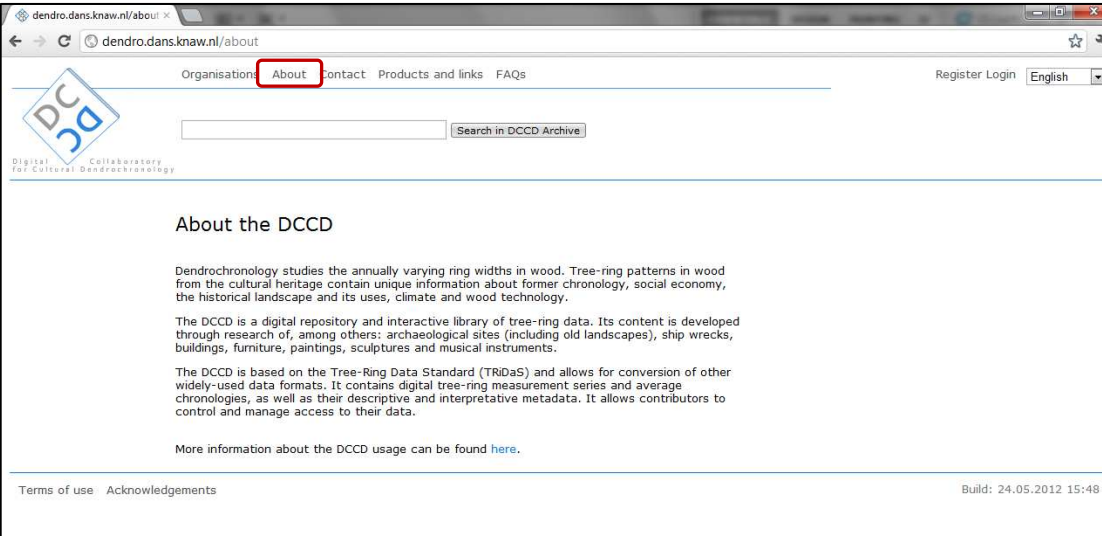
The “Organisations” tab gives an overview of the different organisations connected to the DCCD repository. Clicking on an organization will provide contact information of this organisation (if this information has been entered into the DCCD).



Name	City	Country
KNAW		
DANS	Den Haag	Netherlands
Stichting RING	Amersfoort	The Netherlands
DendroLab Wageningen University	Wageningen	The Netherlands
University of Tennessee		
Cornell Tree-Ring Laboratory	Ithaca	USA
Dendro.dk	Brandsø	Denmark
Rijksdienst voor het Cultureel Erfgoed (Cultural Heritage Agency)	Amersfoort	The Netherlands
Flemish Heritage Institute	Brussels	Belgium
University of Sheffield	Sheffield	United Kingdom
Arkeolan		
BAAC bv	Deventer	the Netherlands
Queens University Belfast	Belfast	Northern Ireland
Institute of Latvian History	Riga	Latvia
National Museum Palace of the Grand Dukes of Lithuania	Vilnius	Lithuania
RKD (Netherlands Institute for Art History)	The Hague	The Netherlands
Stockholm University Dendroclimatology Lab	Stockholm	Sweden
Rijksuniversiteit Groningen		
TGV teksten en presentatie	Leiden	Nederland
Ralling bouwstone en restauratie	Schagen	Nederland
Amsterdam Archeologisch Centrum / UVA	Amsterdam	Nederland
Greiner GmbH	Gersten	Germany
't gebinte molendreeuw	mere	belgie
Royal Institute for Cultural Heritage	Brussels	Belgium
Provincie Zuid-Holland	Den Haag	Nederland
Université de Liège	Liège	Belgium
University of Natural Resources and Life Sciences Vienna	Tulln	Austria
Taakveld Monumentenzorg en Archeologie Gemeente Rijswijk	Rijswijk (ZH)	Nederland
TNO	Utrecht	Nederland
Monumenten & Archeologie Gemeente Leiden	Leiden	Holland
NRC	Amsterdam	

“About” page

The “About” page provides a link to background information about the DCCD repository.



Organisation **About** Contact Products and links FAQs

Search in DCCD Archive

About the DCCD

Dendrochronology studies the annually varying ring widths in wood. Tree-ring patterns in wood from the cultural heritage contain unique information about former chronology, social economy, the historical landscape and its uses, climate and wood technology.

The DCCD is a digital repository and interactive library of tree-ring data. Its content is developed through research of, among others: archaeological sites (including old landscapes), ship wrecks, buildings, furniture, paintings, sculptures and musical instruments.

The DCCD is based on the Tree-Ring Data Standard (TRiDaS) and allows for conversion of other widely-used data formats. It contains digital tree-ring measurement series and average chronologies, as well as their descriptive and interpretative metadata. It allows contributors to control and manage access to their data.

More information about the DCCD usage can be found [here](#).

Terms of use Acknowledgements

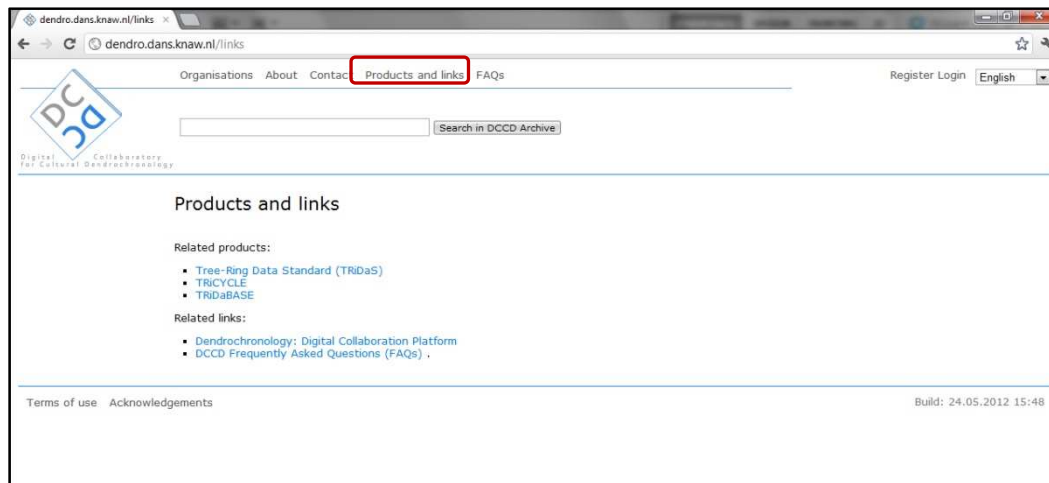
Build: 24.05.2012 15:48

“Contact” page

The “Contact” page provides the contact details of the DCCD project manager. Feel free to contact the manager with any question you may have.

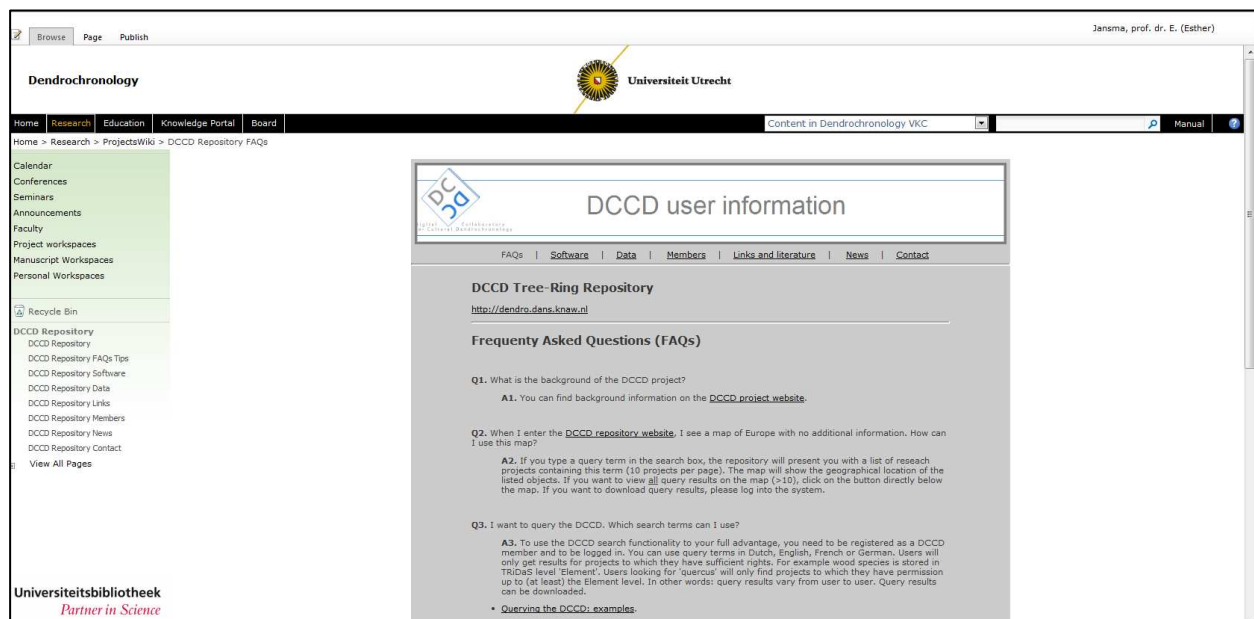
“Products and links” page

The “Product and links” page provides access to external products and tools of the DCCD infrastructure, such as its datamodel, software, and digital collaboration platform.



“FAQs” link

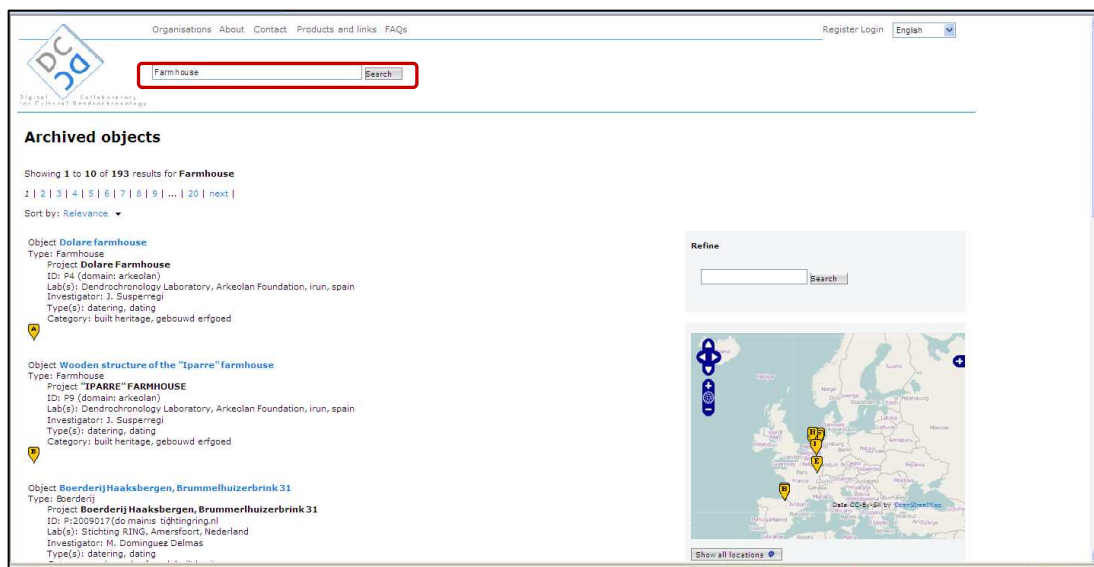
The “FAQs” link to the right of the “Products and links” tab provides access to the Frequently Asked Questions section of the DCCD user-information website. The DCCD user-information website is maintained at the Virtual Knowledge Centre (VKC) for Dendrochronology at Utrecht University (<http://www.uu.nl/vkc/dendrochronology>), which serves as the DCCDs digital collaboration platform.



General query: how to do it

The “general search” field is located on the DCCD homepage and has the same basic functionality as commonly used search engines (e.g. Google, Yahoo). Visitors can perform a general query using the search bar and the “Search” button. A general query searches all fields that are indexed by the DCCD and that are unlocked by the permission levels of the projects. It results in a paginated project overview projects (10 projects per page) and a

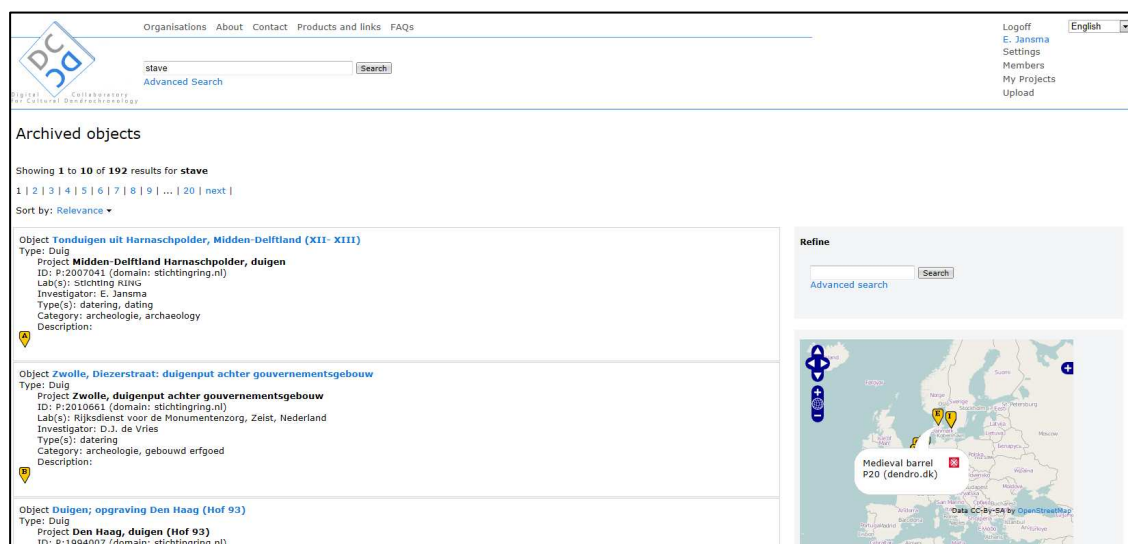
geographical overview of the listed projects. Clicking on a specific project or on the “refined search” button will result in the message that the user should log in.



General query: what can be found?

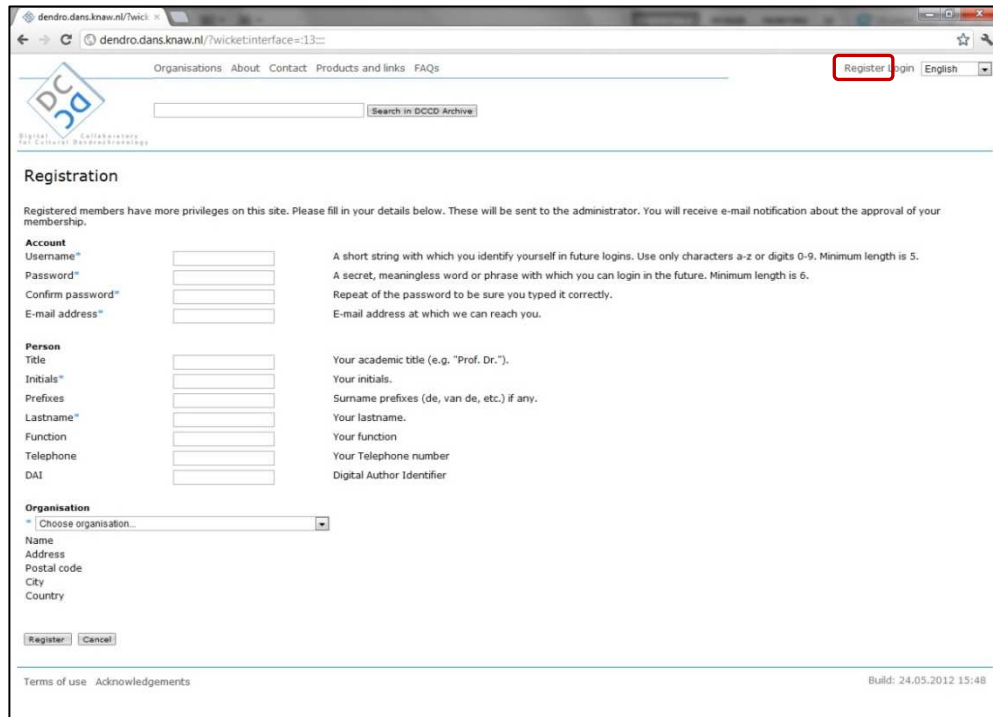
A general query searches all fields that are indexed by the DCCD and that are unlocked by the permission levels of the projects. Entering a term such as “water well” in Dutch will also include English, French and German equivalents into the query-result list. The reason is that the DCCD repository uses a multilingual approach towards the following information: (a) **project category** (e.g., “archaeology”, “built heritage”; (b) **Object type** (e.g., “water well”, “farm house”); and (c) **Element type** (e.g., “pile”, “stave”). Currently the DCCD supports Dutch, English, French and German. The example below shows query results after searching for “stave”, with Dutch results to the left side of the screen and a result in English marked on the map to the right.

Note for DCCD data managers: location coordinates in TRiDaS are stored on the object and element level. Settings permission level of a project to the element level ensures complete spatial visibility of the objects and elements this project contains.



Registering as a member

Visitors can register as a DCCD member by clicking on the “register” button on the top right of the homepage. This opens up a registration form. Fields marked with an asterisk (*) are mandatory. An organization can be chosen from a list. It is also possible to add a new organization, by filling in its name, address, postal code, city and country. Your request will be sent to the DCCD manager who will verify your account and send you a link through which you can activate your account. This link is sent to the email address you have registered.



The screenshot shows a web browser window with the URL `dendro.dans.knaw.nl/?wicketinterface=13`. The page header includes navigation links: Organisations, About, Contact, Products and links, and FAQs. A search bar is labeled "Search in DCCD Archive". On the top right, there are links for "Register", "Login", and "English", with "Register" highlighted by a red rectangle. The main content area is titled "Registration" and contains the following sections:

Account

Registered members have more privileges on this site. Please fill in your details below. These will be sent to the administrator. You will receive e-mail notification about the approval of your membership.

Username* A short string with which you identify yourself in future logins. Use only characters a-z or digits 0-9. Minimum length is 5.

Password* A secret, meaningless word or phrase with which you can login in the future. Minimum length is 6.

Confirm password* Repeat of the password to be sure you typed it correctly.

E-mail address* E-mail address at which we can reach you.

Person

Title Your academic title (e.g. "Prof. Dr.").

Initials* Your initials.

Prefixes Surname prefixes (de, van de, etc.) if any.

LastName* Your lastname.

Function Your function

Telephone Your Telephone number

DAI Digital Author Identifier

Organisation

* Choose organisation...

Name

Address

Postal code

City

Country

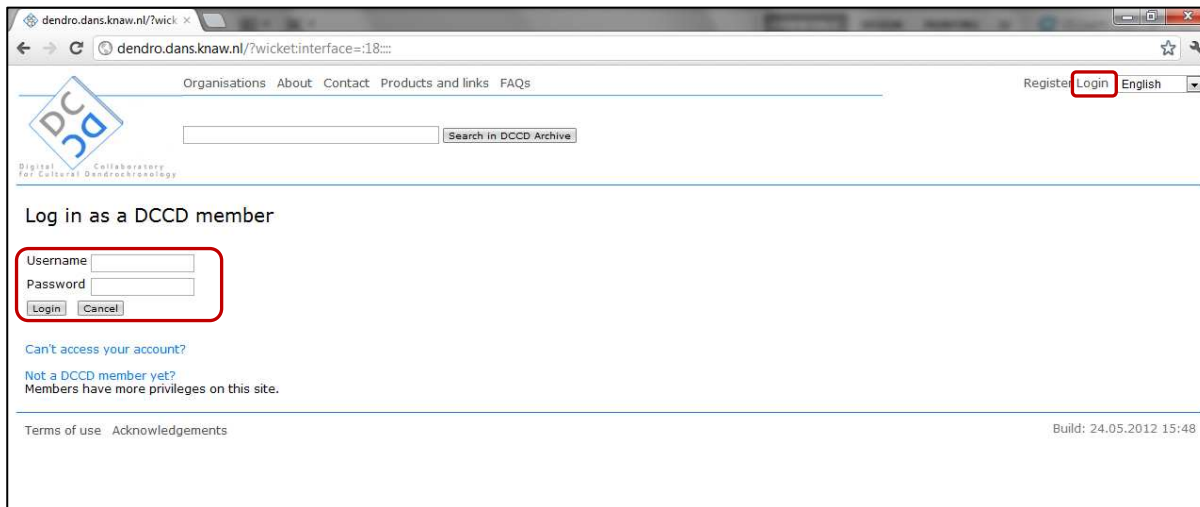
At the bottom, there are "Register" and "Cancel" buttons. The footer contains "Terms of use Acknowledgements" and "Build: 24.05.2012 15:48".

DCCD members

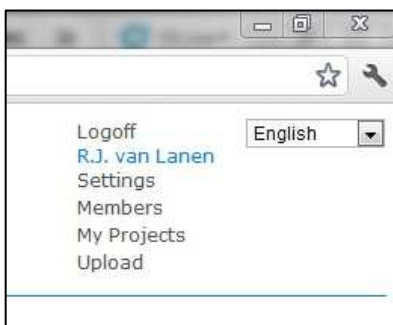
Logging into the DCCD

Username and password

Press the login button on the top right of the screen. The login screen of the DCCD asks for a username and password.

A screenshot of a web browser showing the DCCD login page. The browser's address bar displays 'dendro.dans.knaw.nl/?wicketinterface=18...'. The page features a navigation bar with links: 'Organisations', 'About', 'Contact', 'Products and links', and 'FAQs'. On the right side of the navigation bar, there are links for 'Register' and 'Login' (the 'Login' link is highlighted with a red box), and a language dropdown menu set to 'English'. Below the navigation bar is a search bar with the placeholder text 'Search in DCCD Archive'. The main content area is titled 'Log in as a DCCD member'. It contains a login form with two input fields: 'Username' and 'Password' (both highlighted with red boxes), and two buttons: 'Login' and 'Cancel' (the 'Login' button is highlighted with a red box). Below the login form, there are three links: 'Can't access your account?', 'Not a DCCD member yet?', and 'Members have more privileges on this site.'. At the bottom of the page, there are links for 'Terms of use' and 'Acknowledgements', and a build date 'Build: 24.05.2012 15:48'.

Fill in your username and password and click on the **login** button below the password field. After logging in you will see your username at the top right of the screen, as well as links to the pages that are connected to your account ('Logoff', 'Settings', 'My projects', 'Upload') and a "Members" page containing an overview of current DCCD members. Note: if your name is not displayed on the top right of the screen, you are not logged in and you should login before continuing.

A screenshot of a web browser showing the DCCD user menu. The menu is displayed in a dropdown style. It contains the following links: 'Logoff', 'R.J. van Lanen' (the user's name), 'Settings', 'Members', 'My Projects', and 'Upload'. To the right of the menu, there is a language dropdown menu set to 'English'.

Resetting a password

Members who cannot access their account should click on the Login button and press on the **"Can't access your account?"** button placed underneath the login fields. Here members can enter either their username or their email address. A temporary password will be sent to the registered email address. Members can use this new password to login the DCCD and change the temporary password using **"settings"** (see "Changing user settings").

The screenshot shows a web browser window with the URL `dendro.dans.knaw.nl/?wicketinterface=:19:::`. The page features a navigation bar with links: Organisations, About, Contact, Products and links, FAQs. On the right, there are links for Register, Login, and a language dropdown set to English. The DCCD logo is on the left, with the text "Digital Collaboratory for Cultural Dendrochronology" below it. A search bar with the placeholder "Search in DCCD Archive" is present. The main content area is titled "Password change procedure" and contains the instruction: "Please enter either your username or the e-mail address associated with your username below. Instructions on how to change your password will be sent to the associated e-mail address." Below this are input fields for "Username" and "E-mail address", followed by "Send" and "Cancel" buttons. At the bottom, there are links for "Terms of use" and "Acknowledgements", and a build date: "Build: 24.05.2012 15:48".

Changing user settings

Members can change their settings using the “**settings**” page. This page contains all information known to the DCCD about the user (e.g. username, display name, email address, function, telephone, organization). Here users can edit this information and/or change their password. To either edit user information or change the password click on the “Edit” and “Change password” buttons on the bottom left of the screen.

The screenshot shows a web browser window with the URL `dendro.dans.knaw.nl/?wicketinterface=:62:::`. The page displays the user profile for "Member R.J. van Lanen". The navigation bar is similar to the previous page, but includes a "Logoff" link. The user's account information is listed: Username: rowinvanlanen, Display name: R.J. van Lanen, E-mail address: r.van.lanen@cultureelergoed.nl. Below this, the "Person" section lists: Title: M.A., Initials: R.J., Prefixes: van, Lastname: Lanen, Function: Project medewerker DCCD, Telephone: DAI. The "Organisation" section shows the name "Stichting RINRG" and is highlighted with a red rectangle. Below the name are two buttons: "Edit" and "Change password". At the bottom, there are links for "Terms of use" and "Acknowledgements", and a build date: "Build: 24.05.2012 15:48".

Clicking the “**edit**” button will open a page that is similar to the “registration” page, where alterations can be made:

dendro.dans.knaw.nl/?wicketinterface=9:1::

Organisations About Contact Products and links FAQs

Logoff R.J. van Lanen Settings Members My Projects Upload

Advanced Search Search in DCCD Archive

Back to member list

Member R.J. van Lanen

Account

Username rowinvanlanen A short string with which you identify yourself.
 Display name R.J. van Lanen Your name as used in displays.
 E-mail address r.van.lanen@cultureelerfgoed.nl explanation

Person

Title M.A. Academic title (e.g. "Prof. Dr.").
 Initials* R.J. Initials.
 Prefixes van Prefixes (de, van de, etc.) if any.
 Lastname* Lanen Surname or lastname.
 Function Project medewerker DCCD Short description of the function you work in.
 Telephone Telephone number. Only '+', '-', digits and spaces are allowed.
 DAI Digital Author Identifier

Organisation

Name Stichting RING

Save Cancel

Terms of use Acknowledgements Build: 24.05.2012 15:48

Members changing their password will see the screen depicted below. Simply change your password by typing your old password followed by the new password and a confirmation, and click **“save”**.

dendro.dans.knaw.nl/?wicketbookmarkablePage=:nl.knaw.dans.dccd.web.authn.ChangePasswordPage

Organisations About Contact Products and links FAQs

Logoff R.J. van Lanen Settings Members My Projects Upload

Advanced Search Search in DCCD Archive

Password change procedure - New password

Username rowinvanlanen
 Display name R.J. van Lanen
 Old password
 New password
 Confirm new password

Save Cancel

Terms of use Acknowledgements Build: 24.05.2012 15:48

Uploading projects

The DCCD is fully TRiDaS compatible and only accepts metadata data stored in TRiDaS-XML. Uploading takes place in three steps: (a) uploading a TRiDaS metadata file (for example produced by the TRiDaBASE system; Jansma et al. 2012b); (b) uploading tree-ring value files specified in the uploaded metadata file (ring-width series, average series); (c) uploading associated files (e.g. research reports, photo's).

“Upload” page

Members selecting the **“Upload”** link will see the following screen:

Language setting

Members should first select the language of the TRiDaS-XML file, in this example English. The DCCD verifies the metadata in the TRiDaS files against the selected language. If the TRiDaS file contains more than one language, or a language different from the specified language, the import of the TRiDaS file will fail (with the exception of the taxon field which is Latin at default). Note: the DCCD currently runs a language check on project/object/element type and project category.

Selecting a TRiDaS-XML metadata file for uploading

To select a TRiDaS metadata file for uploading, click on the “**Browse**” button and browse to file’s location on your computer or network. Locally select the file and click “**open**”. To upload the project click on the “**Upload**” button on the DCCD screen. Note: currently the DCCD only supports uploading a single TRiDaS project-metadata file at a time.

Verification of metadata file structure and content

During the upload process the DCCD checks the integrity of the TRiDaS-XML metadata file (e.g. version, XML structure) and the references in this file to associated files. Associated files can be videos, photos, research reports, measurement and/or derived series files, and should be referenced in the TRiDaS-XML by their full file name (name.extension). Files referenced in the TRiDaS-XML *have* to be uploaded before the uploading process can be completed.

Uploading single tree-ring value files

In the example shown below the uploaded TRiDaS metadata file refers to two value files (dbv00191.fh and dbv00192.fh). The first step now is to define the digital format of the value files. In this example both value files are Heidelberg format, therefore Heidelberg has to be selected from the pick list. Note: data formats supported by the DCCD are described by Brewer et al. (2011). Formats not in the pick list are not supported by the DCCD.

After selecting the type of value file (“**Bestand kiezen**” button in the screen depicted above) browse to the location of the value files in your PC or network. Select an individual file and click on “**Open**”, then click the “**Upload**” button. Repeat this process for every individual value file.

Uploading single associated files

The above figure lists one associated file (“Jansma1995.pfd”). In order to upload associated files: Click on “**Choose file**” (“bestand kiezen”) and browse to the location of the referred file on your PC or network. Select the file and click “**open**”, then click the “**Upload**” button.

Uploading multiple value/associated files

In order to upload large collections of value files or associated files, store the intended files in a compressed folder on your PC or network. In the DCCD select the compressed folder and click on “**Upload**”. The DCCD will search in the compressed folder for all individual files. Note: do *not* mix value files and associated files in a single compressed folder, but make one separate compressed folder for value files and a second compressed folder for associated files. When all value files and associated files are uploaded, click the “**Finalise**” or the “**Finalise and upload another**” button to finish the upload process.

“Finalize” button

The “Finalise” button will conclude the upload process and opens **MyProjects** (see “My Projects” environment’).

“Finalize and upload another” button

Clicking on the “Finalise and upload another” button will conclude the upload process and start a new upload process.

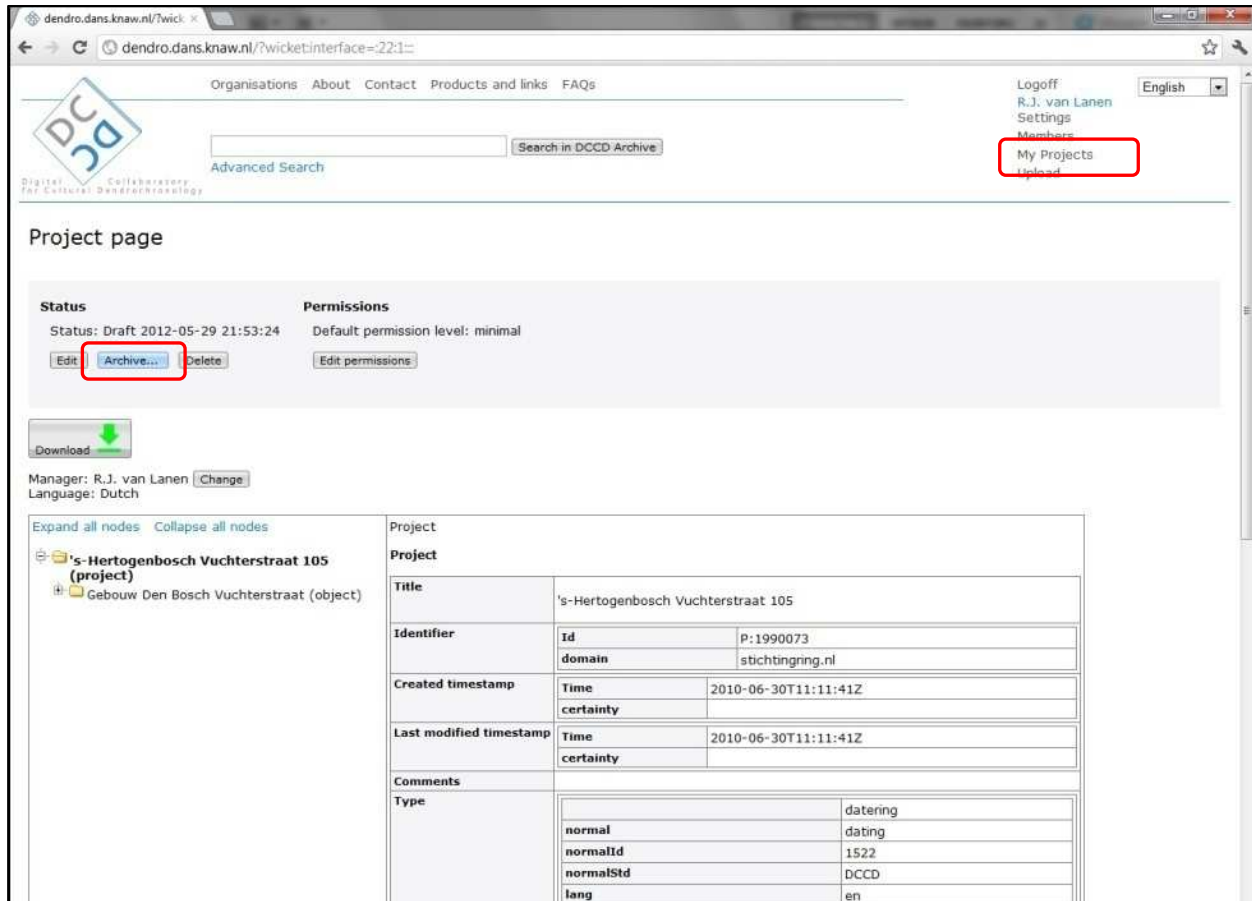
“Reset” button

The “reset” button is always visible on the Upload screen. If you press it the DCCD will discard all uploaded files and will reset the upload process. Note: the user will have to define the project language and value-file type again before the upload process can start again.

Draft projects

"My Projects" environment

Finishing the uploading process stores the uploaded project in your personal **"My Projects"** section of the DCCD. Here the uploaded project has a draft status. In the "My Projects" environment DCCD-members can edit draft projects and view the projects they already archived. Draft projects have not been stored in the DCCD repository yet and as a result remain invisible to all other users of the DCCD. In order to archive a project you have to select this project in "My Projects" and click on the **"Archive"** button (see below).



The screenshot shows the DCCD web interface. At the top, there is a navigation bar with links: Organisations, About, Contact, Products and links, FAQs. A search bar is present with the text "Search in DCCD Archive". On the right, there is a user menu with options: Logoff, R.J. van Lanen, Settings, Members, My Projects (highlighted with a red box), and Upload. Below the navigation bar, the page title is "Project page". The main content area is divided into two sections: "Status" and "Permissions". The "Status" section shows "Status: Draft 2012-05-29 21:53:24" and buttons for "Edit", "Archive..." (highlighted with a red box), and "Delete". The "Permissions" section shows "Default permission level: minimal" and a button for "Edit permissions". Below these sections, there is a "Download" button and a "Manager: R.J. van Lanen" link. The main content area is divided into two columns. The left column shows a tree view of the project structure: "s-Hertogenbosch Vuchterstraat 105 (project)" and "Gebouw Den Bosch Vuchterstraat (object)". The right column shows a table of project details.

Project	
Title	s-Hertogenbosch Vuchterstraat 105
Identifier	Id: P:1990073 domain: stichtingring.nl
Created timestamp	Time: 2010-06-30T11:11:41Z certainty:
Last modified timestamp	Time: 2010-06-30T11:11:41Z certainty:
Comments	
Type	datering
normal	dating
normalId	1522
normalStd	DCCD
lang	en

Editing draft projects

The content of draft projects can be edited by clicking on the title of the preferred project and next clicking on the **"Edit"** button placed to the left of the "Archive" button. Note: it is currently impossible in the DCCD to add new value files, associated files and TRiDaS levels to a project structure. If you wish to add these, you need to download the project from the DCCD, import it in TRiDaBASE or another TRiDaS-based program, add levels and/or references to files, export the file to TRiDaS-XML and upload it again to the DCCD.

Editing draft projects: checking for errors

In the edit mode the content of a project is checked against the requirements of TRiDaS and the DCCD. Errors and inconsistencies are reported by an exclamation mark (“!”) in front of the TRiDaS level shown in the TRiDaS information tree to the left of the screen. When saving changes to an edited TRiDaS level, in case of errors red warning messages will appear on top of the right side of the screen.

The screenshot shows the 'Project page' for 's-Hertogenbosch Vuchterstraat 105' in edit mode. The left sidebar contains a tree structure with a red box around the project name, which has an exclamation mark icon. The main area contains a form with the following fields:

Project	
Title *	s-Hertogenbosch Vuchterstraat 105
Identifier *	<div>Id: P.1990073</div> <div>domain *: stichtingring.nl</div>
Created timestamp	<div>Time: 2010-06-30T13:11:41.000+0200 ⓘ 2012-06-03T22:42:7.193+0200</div> <div>certainty: Choose One</div>
Last modified timestamp	<div>Time: 2010-06-30T13:11:41.000+0200 ⓘ 2012-06-03T22:42:7.194+0200</div> <div>certainty: Choose One</div>
Comments	

Leave edit mode

When members are done editing and have saved all their changes, they need to press the “Leave edit mode” button. To archive the project, follow the steps described under “Archiving projects”.

Archiving projects

If the uploaded TRiDaS metadata file is not compatible with the requirements of the DCCD, this will be reported during the archiving process. Errors have to be corrected before archiving can be completed, using the DCCDs “**Edit**” function (see “Editing draft projects: checking for errors”).

Organisations About Contact Products and links FAQs

Logoff R.J. van Lanen Settings Members My Projects Upload

English

Search in DCCD Archive

Advanced Search

Archiving project "s-Hertogenbosch Vuchterstraat 105" - Validation

Archiving a project will make it visible to other users (respecting the permission levels you indicated).

License
 In order to archive a project, you must accept and understand the [License Agreement \(PDF\)](#).
☐ Yes, I accept the terms and conditions stated above

Note: the license agreement file will also be sent to you in an e-mail confirming your deposit action.

Terms of use Acknowledgements

Build: 24.05.2012 15:48

Before a project can be archived, you need to accept the terms and conditions stated in the **“License Agreement”**. The [content of the DCCD’s Licence Agreement](#) is shown online during the archiving process and is also available through the VKC for Dendrochronology. Clicking on the **“Finish”** button will archive the selected project. You will receive an automated mail from the DCCD confirming your data deposition.

Unarchiving projects

Archived projects can be ‘unarchived’ by their owners in order to improve the projects content. This option, which removes a project from the DCCD repository and provides it with a draft status, will be replaced in the future by functionality that allows storage of different project versions.

Organisations About Contact Products and links FAQs

Logoff E. Jansma Settings Members My Projects Upload

English

Search in DCCD Archive

Advanced Search

Project page

Status
 Status: Archived 2012-06-12 10:18:01

It is temporarily possible to unarchive a project and make it a 'draft' project for further editing. This function will exist only during the start-up phase of the DCCD, during which bulk content is added. It will be replaced by functionality to archive new versions of existing projects.

Permissions
 Default permission level: series

Manager: E. Jansma

Language: Dutch

Utrecht UCK Domein 4 (project)
 Opgraving; Utrecht UCK Domein 4 (object)

Project					
Title	Utrecht UCK Domein 4				
Identifier	<table border="1"> <tr> <td>Id</td> <td>P:1991023</td> </tr> <tr> <td>domain</td> <td>stichtingring.nl</td> </tr> </table>	Id	P:1991023	domain	stichtingring.nl
Id	P:1991023				
domain	stichtingring.nl				
Created timestamp	<table border="1"> <tr> <td>Time</td> <td>2010-06-30T11:11:41Z</td> </tr> <tr> <td>certainty</td> <td></td> </tr> </table>	Time	2010-06-30T11:11:41Z	certainty	
Time	2010-06-30T11:11:41Z				
certainty					
Last modified timestamp	<table border="1"> <tr> <td>Time</td> <td>2011-12-16T19:04:13.091+01:00</td> </tr> <tr> <td>certainty</td> <td></td> </tr> </table>	Time	2011-12-16T19:04:13.091+01:00	certainty	
Time	2011-12-16T19:04:13.091+01:00				
certainty					
Comments	Opgraving 1991				

Viewing projects

The content of projects can be viewed in detail by clicking on the title of the preferred project. On the left side of the screen the content of the selected project will become visible according to its TRiDaS-based information levels. Members can expand the visible levels by clicking on the “+” button, and collapse levels by clicking on the “-” button. The “**Expand all nodes**” button on the top of this section will expand all information levels. Clicking on “**Collapse all nodes**” will collapse the TRiDaS information tree to the default situation.

The screenshot shows the DCCD Project page for 'Utrecht UCK Domein 4 (project)'. The page includes a header with navigation links (Organisations, About, Contact, Products and links, FAQs), a search bar, and a user menu (Logout, E. Jansma, Settings, Members, My Projects, Upload). The main content area is titled 'Project page' and contains a 'Status' section (Archived 2012-06-12 10:18:01, Unarchive button), a 'Permissions' section (Default permission level: series, Edit permissions button), and a 'Download' button. Below these are fields for 'Manager: E. Jansma' and 'Language: Dutch'. A red box highlights the 'Expand all nodes' and 'Collapse all nodes' buttons. The project details are displayed in a table format:

Project		
Title	Utrecht UCK Domein 4	
Identifier	Id	P:1991023
	domain	stichtingring.nl
Created timestamp	Time	2010-06-30T11:11:41Z
	certainty	
Last modified timestamp	Time	2011-12-16T19:04:13.091+01:00
	certainty	
Comments	Opgraving 1991	

Data-access permission levels

A project's permission level determines to which level other DCCD members can view or query your data. The permission levels of the DCCD are hierarchically structured following TRiDaS.

“Maximum security” access level

Projects stored in the DCCD automatically are assigned a ‘**maximum security**’ status, meaning that only public metadata are open for viewing. The public metadata are:

- Project title: the human-readable title under which a project is stored;
- Research context (project type): e.g., anthropology, climatology, dating, ecology;
- Principal investigator: the scientist responsible for the project's content;
- The period in which the research took place: year/month/day, or estimation;
- Physical context of the material: e.g. archaeology, built heritage, furniture;
- Laboratory: name of the laboratory that produced the data;
- Object title: the human-readable title given to the studied object(s) in a project.

When a project has “maximum security” status, it means that public metadata is shown and can be searched while all other content is inaccessible except for the data owner.

Project to Series permission levels

Setting permission levels to one of these TRiDaS levels means that this level *and all levels placed above it* are visible and can be queried, with the exception of fields containing privacy-sensitive information.

Object level: in this level the coordinates of your study objects are stored. If you want this project to show up on the DCCD map, you need to unlock your project to this level.

Element level: this level contains the tree species you have studied in a project. If you want your project to be found during species-related queries, you need to unlock your project to this level.

Series level: this level contains the dates and (if you have registered provenance) the growth regions of the wood you studied. If you want your project to be found during chronological and provenance-related queries, you need to unlock your project to this level. Opening your project to this level means that all *metadata* of your project can be fully searched, while the data itself (the actual time series) remain invisible.

“Values” permission level

If a projects permission level is set to “Values” level, the project can be downloaded including its value files and associated files (see under “Downloading DCCD projects”).

Setting data-access permission levels

DCCD data managers can set and alter permission levels for archived and draft projects alike. To alter permission levels go to **“My Projects”**, select a project and click on the **“Edit permissions”** button. This will enable you to (re)define default project permissions (which will apply for all DCCD users) and alternative permissions for selected individual DCCD members.

The screenshot shows the DCCD Project page for 'Utrecht UCK Domplein 4 (project)'. The 'Permissions' section is highlighted with a red box, showing the 'Default permission level: series' and an 'Edit permissions' button. The 'My Projects' link in the top right navigation bar is also highlighted with a red box. The project details table is as follows:

Project	
Title	Utrecht UCK Domplein 4
Identifier	
Id	P:1981023
domain	stichtingring.nl
Created timestamp	
Time	2010-06-30T11:11:41Z
certainty	
Last modified timestamp	
Time	2011-12-16T19:04:13.091+01:00
certainty	
Comments	Opgraving 1991

Setting the default permission level

The default permission level of a project defines the accessibility of a project within the DCCD for all DCCD members. To set the default permission level, click on the **“Default permission level”** button. This opens up a new screen containing the permission pick list.

dendro.dans.knaw.nl/?wicketinterface=17...

Organisations About Contact Products and links FAQs

Logoff R.J. van Lanen Settings Members My Projects Upload

English

Search in DCCD Archive

Advanced Search

Project page

Status
 Status: Draft 2012-05-29 21:53:24
[Edit](#) [Archive...](#) [Delete](#)

Permissions
 Default permission level: minima
[Edit permissions](#)

[Download](#)

Manager: R.J. van Lanen [Change](#)
 Language: Dutch

Expand all nodes Collapse all nodes

- 's-Hertogenbosch Vuchterstraat 105 (project)
 - Gebouw Den Bosch Vuchterstraat (object)

Project		
Title	's-Hertogenbosch Vuchterstraat 105	
Identifier	Id	P:1990073
	domain	stichtingring.nl
Created timestamp	Time	2010-06-30T11:11:41Z
	certainty	
Last modified timestamp	Time	2010-06-30T11:11:41Z
	certainty	
Comments		
Type		datering
	normal	dating
	normalId	1522
	normalStd	DCCD
	lang	en
Description		

Organisations About Contact Products and links FAQs

Logoff R.J. van Lanen Settings Members My Projects Upload

English

Search in DCCD Archive

Advanced Search

Permission settings - 's-Hertogenbosch Vuchterstraat 105

Default permission level:
 Maximum security

Exceptions:

Member:

About the permission levels:
 Maximum security: public metadata is shown and can be searched. All other content is inaccessible.
 The public metadata consist of:

- Project title
- Project identifier
- Project type
- Principal investigator
- Period of research
- Type of material that was studied (archaeology, ship's archaeology, furniture et cetera)
- Laboratory
- Object title

The Project to Series permission level: in addition the entire content of the selected TRIDaS level is shown and can be searched, with the exception of privacy-sensitive information.

The Values permission level: this level permits downloading of complete project files, including measurement series and associated files, in TRIDaS XML and other dendrochronological data formats.

Setting alternative permission levels

Adapting the permission level of a project for individual DCCD members is done by pressing the **"Show all users"** button and selecting individual members by pressing on the **"add"** button. Members can also be selected by entering the first digits of usernames in the **"Member"** field.

Organisations About Contact Products and links FAQs

Logoff E. Jansma Settings Members My Projects Upload

English

Advanced Search Search in DCCD Archive

The DCCD site will be restarted for maintenance on Thursday June 14, at 7:00h (CET)

Permission settings - Onze Lieve Vrouwenkerk Maastricht

Default permission level:
Series

Exceptions:

Member: Add Show All Users... Choose one... Remove

Add user

	Lastname	Display name	Org
Add	Boon	P.J. Boon	DAF
Add	Jansma	E. Jansma	Stic
Add	Dekkers	B Dekkers	DAF
Add	Copini	P Copini	Der
Add	Grissino-Mayer	H.D. Grissino-Mayer	Unir

About the permission levels:
Maximum security: public metadata is shown and can be searched. All other content is inaccessible.
The public metadata consist of:

- Project title
- Project identifier
- Project type
- Principal investigator
- Period of research
- Type of material that was studied (archaeology, ship's archaeology, furniture et cetera)
- Laboratory
- Object title

The Project to Series permission level: in addition the entire content of the selected TRiDaS level is shown and can be searched, with the exception of privacy-sensitive information.

The names of selected DCCD members will appear directly below the “Member” field. To continue, the screen “Add user” should be closed by pressing the “X” on its top right side.

Organisations About Contact Products and links FAQs

Logoff E. Jansma Settings Members My Projects Upload

English

Advanced Search Search in DCCD Archive

The DCCD site will be restarted for maintenance on Thursday June 14, at 7:00h (CET)

Permission settings - Onze Lieve Vrouwenkerk Maastricht

Default permission level:
Series

Exceptions:

Member: Add Show All Users... Choose one... Remove

P W Brewer (pwb48): Series

Add user

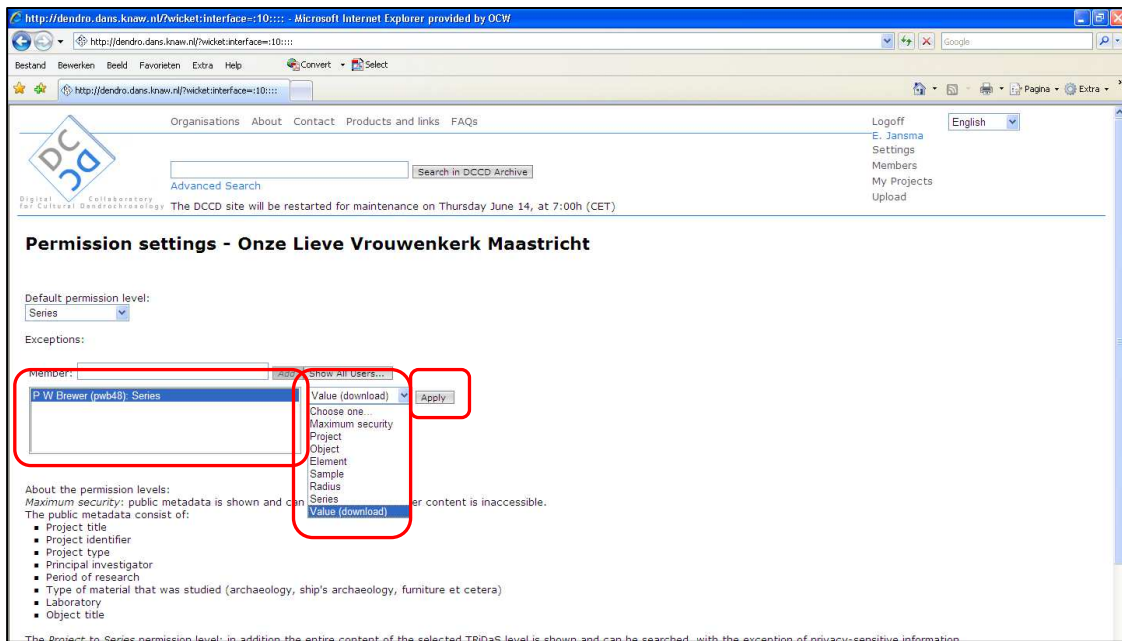
	Lastname	Display name	Org
Add	Jansma	E. Jansma	Stic
Add	Dekkers	B Dekkers	DAF
Add	Copini	P Copini	Der
Add	Grissino-Mayer	H.D. Grissino-Mayer	Unir
Add	Brewer	P W Brewer	Cor
Add	Daly	Aoife Daly	der
Add	Jansma	E. Jansma	Stic

About the permission levels:
Maximum security: public metadata is shown and can be searched. All other content is inaccessible.
The public metadata consist of:

- Project title
- Project identifier
- Project type
- Principal investigator
- Period of research
- Type of material that was studied (archaeology, ship's archaeology, furniture et cetera)
- Laboratory
- Object title

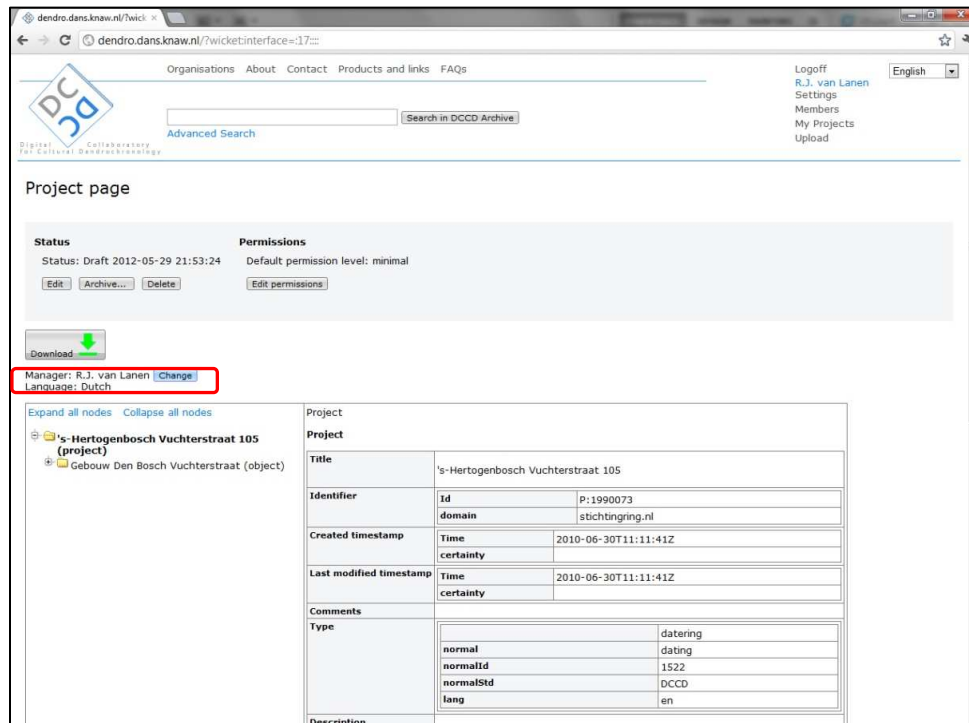
The Project to Series permission level: in addition the entire content of the selected TRiDaS level is shown and can be searched, with the exception of privacy-sensitive information.

To set permissions for the selected user or group of users, please follow the following three steps: (1) select the users by double-clicking on their name, (2) select permission level in the permission-level pick list, and (3) press the “Apply” button.

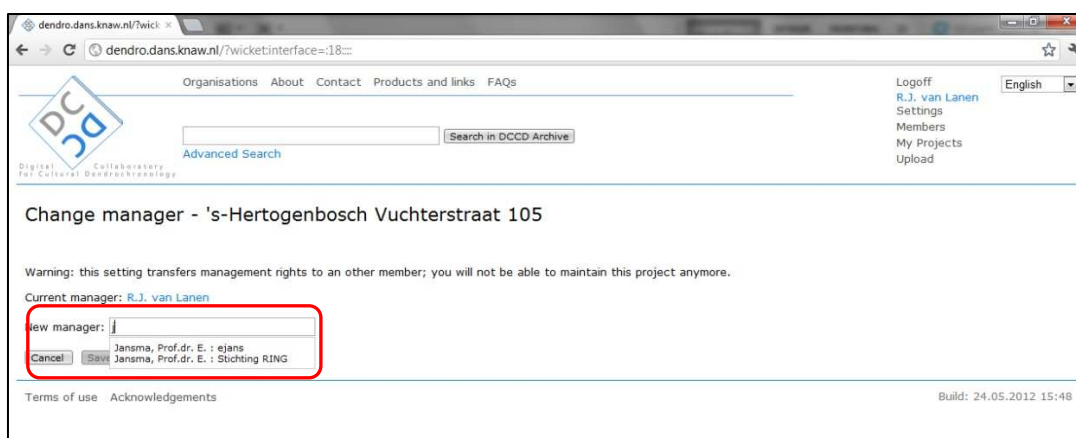


Changing data managers

Manager permissions can be altered by the current data manager of the project. Because data owners and managers can change over time, the current manager of a project can assign the management rights of this project to another member of the same organization. To change the data manager, select a project in **“My Projects”** and click on the **“Change”** button.



The current manager of the project is displayed underneath the download button (in this example the manager is: “R.J. van Lanen”). Enter the name of the new manager into the “**New manager**” field and select this name (in this example: “Prof. Dr. E. Jansma”). Finish the process with “**Save**”. Note: new managers need to be from the same organization as the original data manager, in order to prevent that data ownership is transferred between organizations. If data ownership does need to be transferred to another organization, DANS will create a “backdoor” solution. In that case please contact the DCCD project manager.

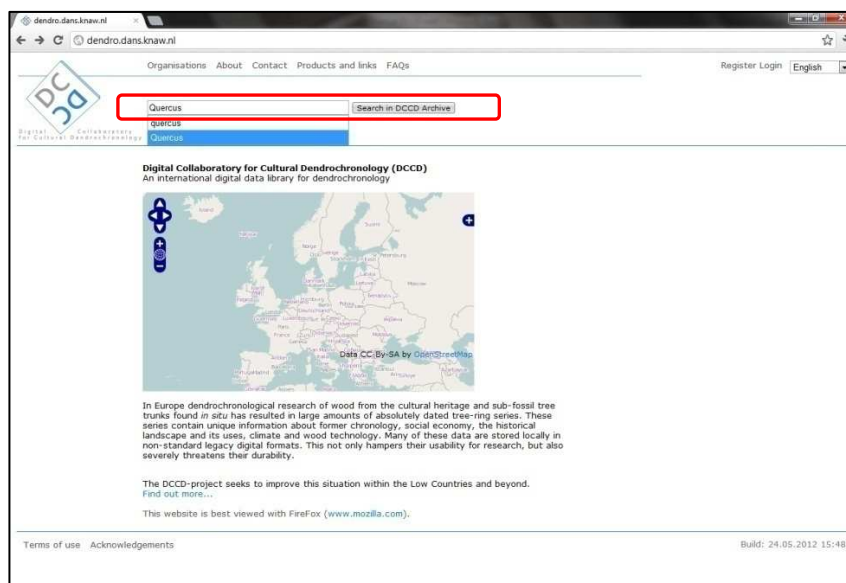


Querying the DCCD repository

A query searches all fields that are indexed by the DCCD and that are unlocked by the permission levels of the projects. Entering a term such as “water well” in Dutch will also include English, French and German equivalents into the query-result list. The reason is that the DCCD repository uses a multilingual approach towards the following information: (a) **project category** (e.g., “archaeology”, “built heritage”); (b) **Object type** (e.g., “water well”, “farm house”); and (c) **Element type** (e.g., “pile”, “stave”). Currently the DCCD supports Dutch, English, French and German. Note for DCCD data managers: location coordinates in TRiDaS are stored on the object and element level. Settings permission level of a project to the element level ensures complete spatial visibility of the objects and elements this project contains.

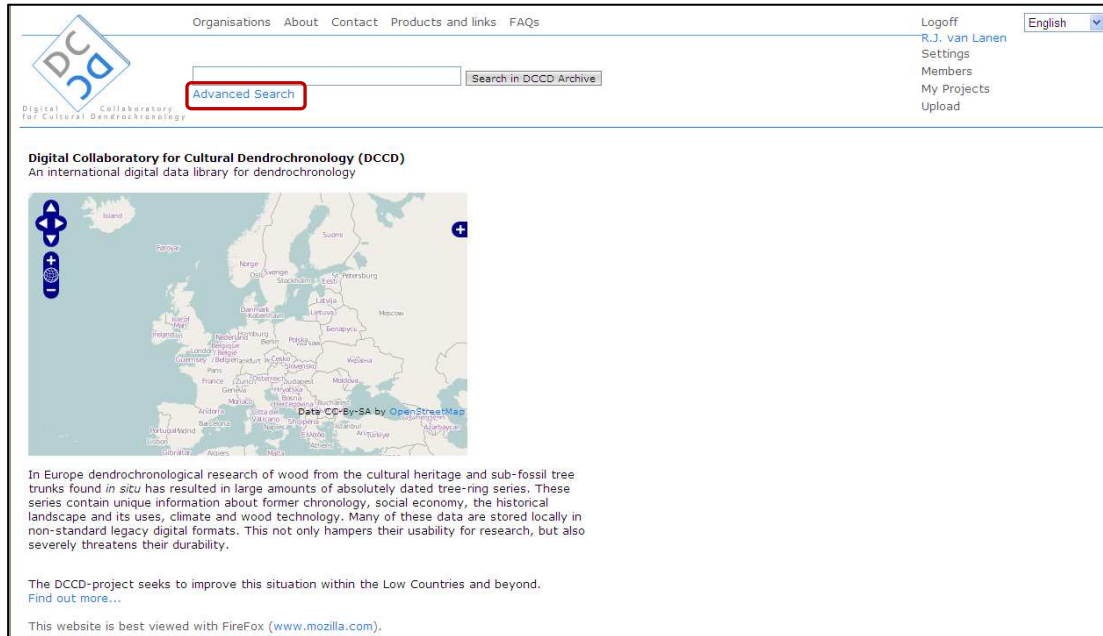
General search

A general query is performed using the search bar and the “Search” button. This results in a paginated overview projects (10 projects/page) and a geographical overview of the listed projects on a map to the right of the screen.



Advanced search

The “advanced search” option is only available for members logged into the DCCD. Logged-in members see the “Advanced Search” on the DCCD homepage.



Clicking on the “Advanced Search” field will open the “advanced-search” page, allowing members to perform advanced queries for combinations of predefined information fields. The “Advanced Search” page is divided in TRiDaS levels “Project”, “Object” and “Element”. **Project category**, **Object type**, **Element type** and **Element taxon** are part of the controlled vocabulary of the DCCD and can only be queried using the pick list. Note: depending on your system opening these pick lists may take time.

The screenshot shows the 'Advanced Search' page. At the top, there is a navigation bar with links: Organisations, About, Contact, Products and links, and FAQs. On the right, there is a user menu for 'R.J. van Lanen' with options: Logoff, Settings, Members, My Projects, and Upload. A language dropdown is set to 'English'. Below the navigation bar, there is a search bar with the text 'Search in DCCD Archive' and a link 'Advanced Search'. The main content area features the DCCD logo and a map of Europe with various locations marked. Below the map, there is a paragraph of text about dendrochronological research and a link 'Find out more...'. At the bottom, it says 'This website is best viewed with FireFox (www.mozilla.com)'. The 'Advanced Search' page has a section 'Criteria: My Projects' with a search bar 'Any field'. Below this, there are three columns of search criteria: 'Project', 'Object', and 'Element'. Each column has fields for Title, Identifier, Laboratory Name, Category, Type, and Taxon. The 'Project' column has a 'Category' dropdown. The 'Object' column has a 'Type' dropdown. The 'Element' column has a 'Type' dropdown and a 'Taxon' dropdown with a 'Select...' button. Below these columns, there is a 'Period' section with 'From year' and 'to' fields, and a 'For' section with checkboxes for 'First Year', 'Last Year', 'Pith Year', and 'Death Year'. At the bottom, there are 'Search' and 'Cancel' buttons. The footer contains 'Terms of use', 'Acknowledgements', and 'Build: 24.05.2012 15:48'.

In addition a free search field is visible which will accept all terms and will search all fields in the DCCD index. Members can also perform period searches on “First Year”, “Last Year”, “Pith Year”, and “Death Year”.

Organisations About Contact Products and links FAQs

Logoff R.J. van Lanen Settings Members My Projects Upload

English

Advanced Search

Criteria: My Projects

Any field

Project Title Identifier Laboratory Name Category

Object Title Identifier Type Creator

Element Title Identifier Type Taxon

Period From year AD to AD

For ☐ First Year ☐ Last Year ☐ Pith Year ☐ Death Year

Search Cancel

Terms of use Acknowledgements

Build: 24.05.2012 15:48

If members wish to refine their search results further (either after a general or after an advanced search), they can use the refine section above the map on the right side of their screen. Clicking the “**Advanced search**” on the right side of the screen will reopen the same “**Advanced Search**” page and will add a query variable to the result page.

Organisations About Contact Products and links FAQs

Logoff E. Jansma Settings Members My Projects Upload

English

ship

Advanced Search

Archived objects

Showing 1 to 10 of 387 results for ship

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ... | 39 | next |

Sort by: Relevance

Object **Beschoevingen en Schip (Deventer)**

Type: Schip

Project **Deventer**

ID: P:1992009 (domain: stichtingring.nl)

Lab(s): Rijksdienst voor het Oudheidkundig Bodemonderzoek, Amersfoort, Nederland

Investigator: E. Jansma

Type(s): dating, dating

Category: archeologie, archaeology

Description:

Object **2 Schepen uit Zeewolde**

Type: Schip

Project **Zeewolde NZ-74**

ID: P:1986026 (domain: stichtingring.nl)

Lab(s): Rijksdienst voor het Oudheidkundig Bodemonderzoek, Amersfoort, Nederland

Investigator: A.J. Brongers

Type(s): dating, dating

Category: scheepsarcheologie, ship archaeology

Description:

Object **Mornington, River Boyne, Drogheda**

Type: Boat

Project **Mornington, River Boyne, Drogheda, Co. Louth**

ID: Mornington, River Boyne, Drogheda (domain: Mornington, River Boyne, Drogheda)

Lab(s): Queens University Belfast, Belfast, UK

Investigator: Donal Boland

Refine

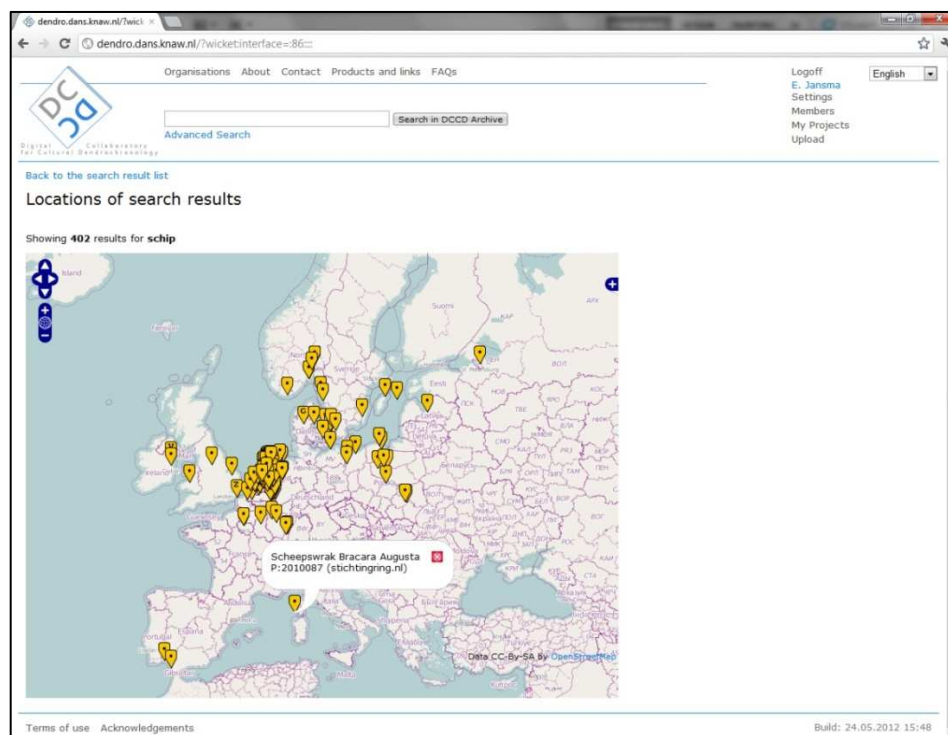
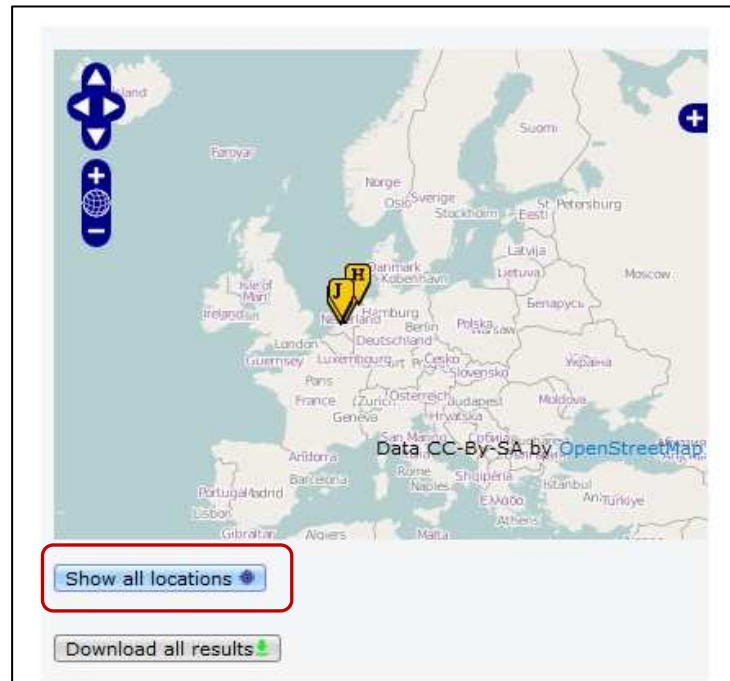
Advanced search

Map

Data CC-BY-SA by OpenStreetMap

Spatially mapping query results

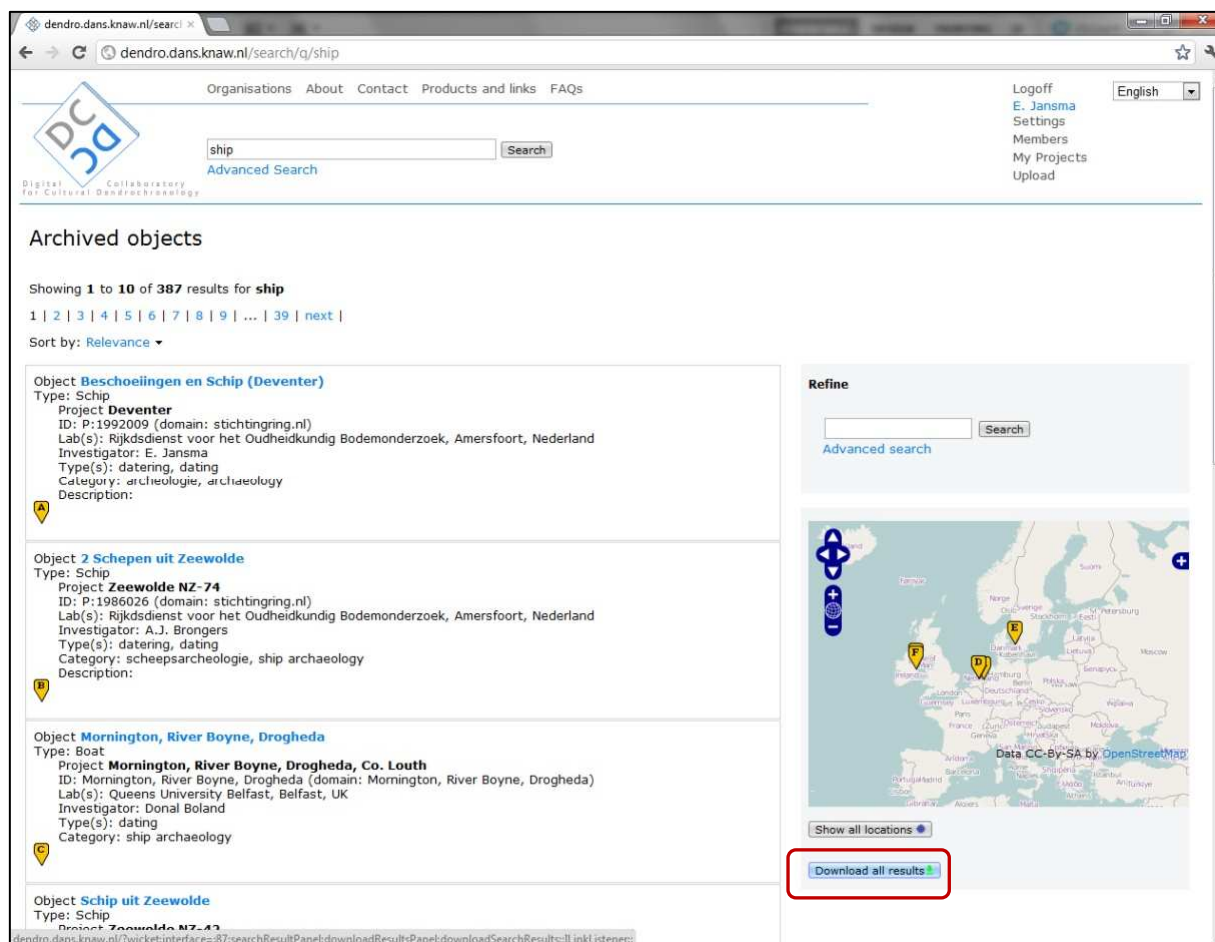
Query results are spatially shown using the DCCD maps. The smaller map to the right of the screen displays paginated search results, with a maximum of 10 projects. To get a full spatial overview of all query results users should click the **“Show all locations”** button placed below the smaller map. This opens a new page with a larger map depicting all search results (in this example 402 results for a query on the Dutch term “Schip” (equivalent of the English term “ship”).



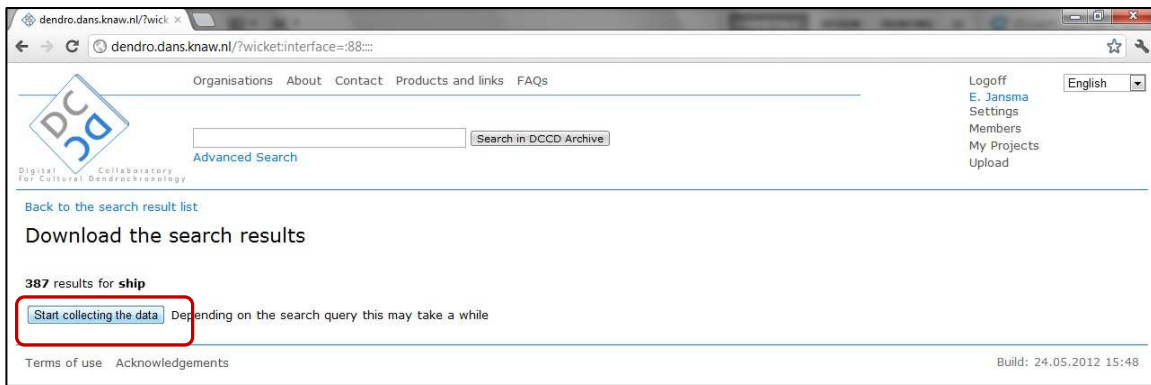
Clicking on an individual label on the map will provide information on a specific object including identifiers and domain. Members wanting more information about this project can search the project identifier and domain and open (or download) the project. Note: depending on the size of the query (number of objects) and the internet connection, loading the larger map may take some time. Also note: a fast way to access a specific project is to copy label content, paste it into the “Search” field above the map and click on the “Search” button.

Downloading query results in XML

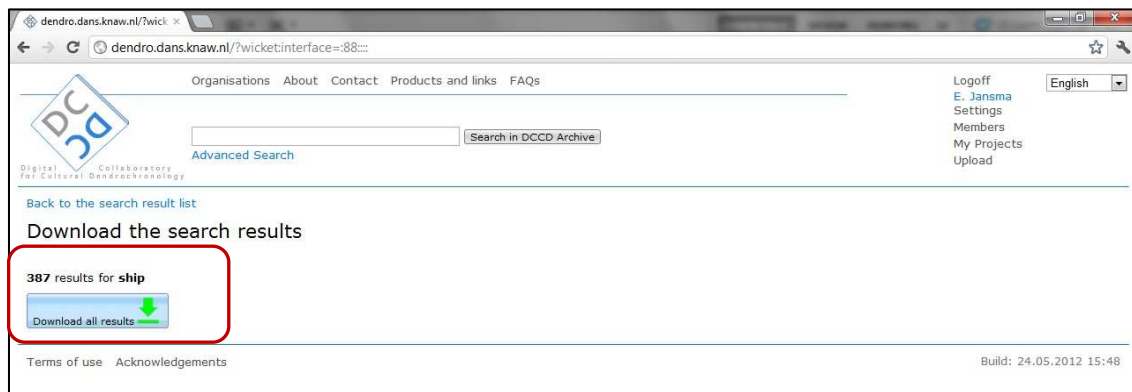
The DCCD allows members to quickly download an overview of search results. After querying the repository results are displayed in a paginated list of projects and on a smaller map to the right of the screen. To download query results members should click on the **“Download all results”** button placed below the map underneath the “Show all locations” button.



Clicking on the “Download all results” button results in a compilation of results into an single XML file. Depending on the number of projects the compilation may take a while. To continue, click the **“Start collecting the data”** button.



When the data have been collected a large “**Download all results**” button will appear. Click on this button and select a location where the XML file should be saved on your PC or network.



The DCCD will compile a file with the default name “*dccdsearchresults.XML*”. When saving the file to disk it is possible to enter an alternative filename.

Opening an XML file containing DCCD query results

The content of query-result files can be read into Microsoft Excel. There are two ways of doing this: (a) right-click on the file and open with Microsoft Excel; (b) start Microsoft Excel and open the XML file. The following message will appear. Note: the displayed language of this message depends on the language settings in Microsoft Office. In the example below the language setting is Dutch.



Users should always select the top option “Als een XML-tabel” (“Open like XML table”).

In some occasions users will also see the message depicted below, which states that Excel will make a schema based on the imported XML. Users can check the box to never display this message again and select “ok”. The file with DCCD query results is then imported into Excel.



The resulting spreadsheet shows one single object per line (columns D and E) and for projects containing > 1 object repeats the project information listed in columns A-C. It displays additional information in various rows (F-N).

Spreadsheets containing DCCD query results contain the following fields:

TRiDaS Level	TRiDaS data field
Project	Laboratory
	Identifier
Object	Title
	Title
	Type

Element	Longitude
	Latitude
	Title
	Type
MeasurementSeries	Taxon
	First Year
	Last Year
	Pith Year
	Death Year

Downloading DCCD projects

DCCD members can download their own projects and projects by others who have set the permission level to the Values level of TRiDaS. After querying the repository a list of projects is displayed meeting the query variables. Clicking on a project will open the project on a next page. If members are allowed to download the project, a large **“download”** button will be displayed.

The screenshot shows the DCCD Project page. At the top, there's a navigation bar with links like 'Organisations', 'About', 'Contact', 'Products and links', and 'FAQs'. A search bar is present. The main content area is titled 'Project page'. It shows the project status as 'Archived 2012-04-09 21:38:36' and a 'Unarchive' button. A note mentions that it's temporarily possible to unarchive a project. A 'Permissions' section shows the default permission level as 'series' and exceptions for 'ronald' (value) and 'ronald' (download). A 'Download' button with a green arrow icon is highlighted with a red box. Below this, there's a section for 'Manager: E. Janma' and 'Language: Dutch'. A tree view shows the project structure, including 'Alphen a/d Rijn Couvee/Julianastraat 57-61 vicus Romeins castellum (project)' and its sub-projects like 'CSA01040 (derived series)', 'CSA02010 (derived series)', 'CSA04040 (derived series)', 'CSA0102Z (derived series)', and 'CSA0202Z (derived series)'. A table at the bottom shows project details like 'Title', 'Identifier', 'Id', 'domain', and 'Created timestamp'.

To download a project, click on the **“Download”** button. The following page will appear:

The screenshot shows the DCCD Download project page. It starts with the same navigation bar as the previous page. The main content area is titled 'Download project'. Below this, it says 'Utrecht UCK Domplein 4'. A section titled 'Download options' provides metadata and values in TRiDaS format, with a dropdown menu for 'format'. An 'Include' section has checkboxes for 'Original value files', 'Associated files', 'DCCD administrative data', and 'DCCD usage comments'. A 'License' section titled 'GENERAL CONDITIONS OF USE FOR DANS' contains the text of the license, including a section for '1. Clear acknowledgement of sources'. At the bottom, there's a 'Download' button and a footer with 'Terms of use', 'Acknowledgements', and a build date of '24.05.2012 15:48'.

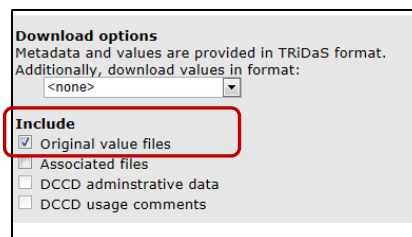
The next step is to determine what files are to be downloaded. Options to this effect are shown on the same screen.

Minimum download

In all cases the requested project file is downloaded in TRiDaS format with metadata and data integrated into a single XML file.

Downloading original value files

Ticking the box “Original value files” will add the originally uploaded series. These can have any format (e.g., Tucson, Heidelberg, Besancon).

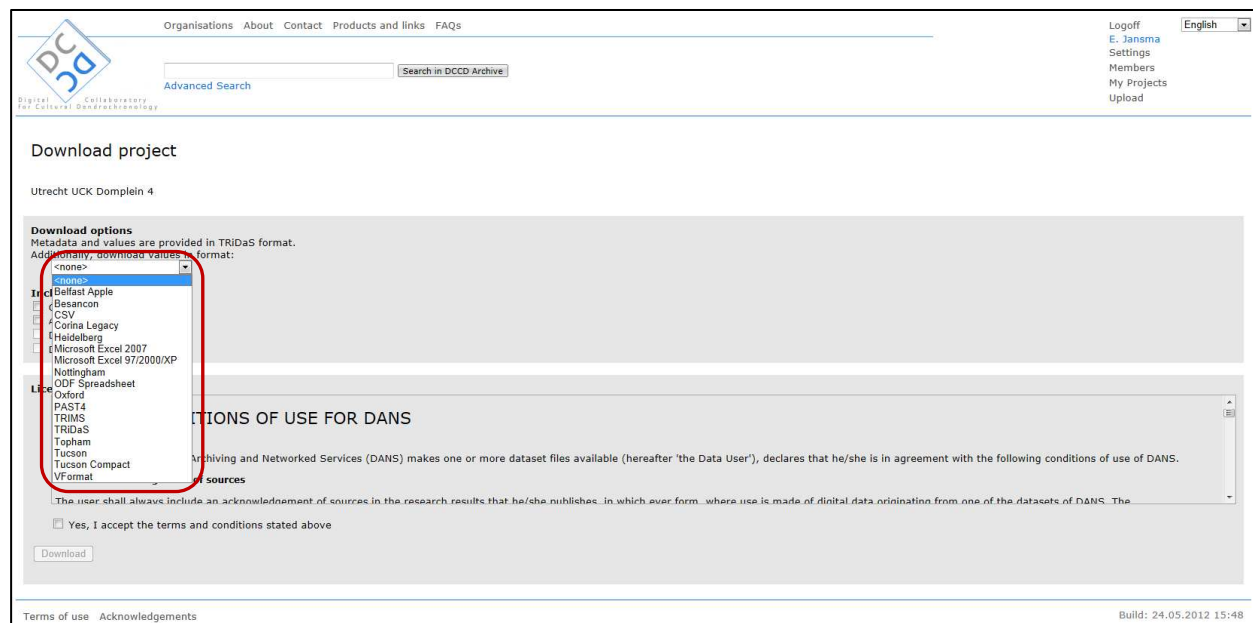


Download options
Metadata and values are provided in TRiDaS format.
Additionally, download values in format:
<none>

Include
☒ Original value files
☐ Associated files
☐ DCCD administrative data
☐ DCCD usage comments

Downloading additional value files

Selecting an additional value-file format will add the series in the format specified by the user. These are most of the formats incorporated into the data-conversion library TRiCYCLE (Brewer et al 2011). Note: some data conversions may need to be improved further, please communicate your findings using the TRiDaS discussion forum (<http://tridas.org/forum/>).



Organisations About Contact Products and links FAQs

Logoff E. Jansma Settings Members My Projects Upload

Advanced Search Search in DCCD Archive

Download project

Utrecht UCK Dimplein 4

Download options
Metadata and values are provided in TRiDaS format.
Additionally, download values in format:
<none>

Include
☒ Original value files
☐ Associated files
☐ DCCD administrative data
☐ DCCD usage comments

CONDITIONS OF USE FOR DANS

Archiving and Networked Services (DANS) makes one or more dataset files available (hereafter 'the Data User'), declares that he/she is in agreement with the following conditions of use of DANS.

The user shall always include an acknowledgement of sources in the research results that he/she publishes, in which ever form where use is made of digital data originating from one of the datasets of DANS. The

☐ Yes, I accept the terms and conditions stated above

Download

Terms of use Acknowledgements

Build: 24.05.2012 15:48

Downloading associated files

Associated files are non-value files incorporated into a project. These can be research reports, Excel files containing analytical results and overviews, publications, photo's, et cetera. To download associated files, activate the “associated files” tick box.

Download options
Metadata and values are provided in TRiDaS format.
Additionally, download values in format:
<none>

Include

- ☐ Original value files
- ☒ Associated files
- ☐ DCCD administrative data
- ☐ DCCD usage comments

Remaining download options

There are two remaining tick boxes on the download page: “DCCD administrative data” and “DCCD usage comments”. These options are not yet active, because the functionality they require still has to be developed.

Accepting the terms and conditions of DANS

The DCCD repository is situated at *Data Archiving and Networked Services* (DANS), an institute of the Netherlands Organization for Scientific Research (NWO; <http://www.nwo.nl>) and the Royal Netherlands Academy of Arts and Sciences (KNAW, <http://www.knaw.nl>). DANS has a set of rules regarding the use of data downloaded from its holdings. Please see <http://dendro.dans.knaw.nl/termsofuse> for the full text. Users wishing to download data from the DCCD have to agree with these terms before they can activate the download button.

Organisations About Contact Products and links FAQs

Logoff E. Jansma Settings Members My Projects Upload

Advanced Search Search in DCCD Archive

Download project

Utrecht UCK Domein 4

Download options
Metadata and values are provided in TRiDaS format.
Additionally, download values in format:
<none>

Include

- ☐ Original value files
- ☒ Associated files
- ☐ DCCD administrative data
- ☐ DCCD usage comments

License

GENERAL CONDITIONS OF USE FOR DANS

The person to whom Data Archiving and Networked Services (DANS) makes one or more dataset files available (hereafter 'the Data User'), declares that he/she is in agreement with the following conditions of use of DANS.

1. Clear acknowledgement of sources

The user shall always include an acknowledgement of sources in the research results that he/she publishes, in which ever form, where use is made of digital data originating from one of the datasets of DANS. The

☒ Yes, I accept the terms and conditions stated above

Download

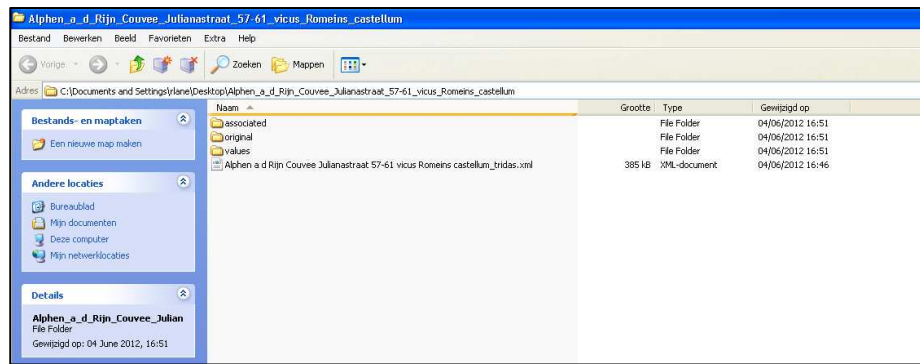
Terms of use Acknowledgements Build: 24.05.2012 15:48

Download command

The download command is given by pressing the “Download” button directly underneath the “conditions of use” section.

Downloaded file

A download from the DCCD is a compressed file which always contains a single TRiDaS-XML file in which metadata and data are integrated. Depending on the specified options the compressed file may also contain original value files, different-format value files, and associated files. Members should extract the compressed folder to a location on their PC or network.



After decompression the data becomes available. The “**associated**” folder contains all associated files. The “**Original**” folder contains the TRiDaS-XML metadata and tree-ring series that were uploaded originally. The “**Values**” folder contains tree-ring series in the format specified by the user before downloading. The XML-file not in a folder contains the single TRiDaS-XML file in which metadata and data are integrated.

Acknowledgements

Project team of the DCCD infrastructure

The DCCD infrastructure consists of (a) tree-ring data standard TRiDaS; (b) software for interaction with the DCCD repository; (c) the DCCD repository itself (the topic of this manual); and (d) digital forums for communication, research, education and outreach.

DCCD infrastructure

Esther Jansma (Cultural Heritage Agency of the Netherlands (RCE); Utrecht University Faculty of Geosciences) developed the concept of the DCCD infrastructure, initiated its development and supervised its realization (Jansma 2010; Jansma et al. 2012a; Jansma & Van Lanen 2012). Rowin van Lanen (the Netherlands Centre for Dendrochronology/RING Foundation) acted as project assistant and was involved in many aspects of the work.

TRiDaS

Together with Peter Brewer (Cornell University) and Ivo Zandhuis (Onderzoek & Advies voor digitale ontsluiting van culturele informatie), Jansma developed the international data-exchange standard TRiDaS (Jansma et al. 2010).

Software

Peter Brewer developed the code for the conversion of >20 dendrochronological data formats with help from Daniel Murphy, Esther Jansma and many others (Brewer et al. 2011). In addition he has set up and maintains the TRiDaS website (technical documentation, links to available software) at <http://www.tridas.org>. Kit Sturgeon and Steve Mohlke (The Epison Group, New York) together with Esther Jansma, Rowin van Lanen and Peter Brewer developed TRiDaBASE, a stand-alone MS Access database for interacting with the DCCD web application (Jansma et al. 2012b).

DCCD repository

At Digital Archiving and Networked Services (DANS) Paul Boon did the invaluable programming work, Rob Maijers created the usability design of the web application, and Lodewijk Bogaards and Rutger Kramer guarded the development process. At RCE Frans van der Zande guarded the integrity of the DCCD architecture as the work progressed, and Ronald Wiemer and Benjamin Dekker oversaw parts of the work.

Forums for communication

Dafne Jansen (Utrecht University) set up the Virtual Knowledge Centre (VKC) for Dendrochronology, an important tool for DCCD-related communication, research, education and outreach managed by Esther Jansma. Peter Brewer set up and maintains the TRiDaS website (technical documentation, links to available software) at <http://www.tridas.org>, and a second more general forum for TRiDaS-based products at <http://tridas.org/forum/>.

Content of the DCCD

Many specialists have contributed to the development of TRiDaS (see <http://www.tridas.org/contributors.php> for an overview). The content of the DCD was provided by dendrochronologists in many countries, see the VKC for Dendrochronology at <http://www.uu.nl/vkc/dendrochronology>, website “DCCD user information”, under “Members”.

Funding

The development of the DCCD was funded by the Netherlands Organization for Scientific Research (NWO, section Humanities), through a start-up subsidy (2006-2007), a medium-investment subsidy (2008-2012) and an Internationalization Humanities subsidy (2010-2013). The Cultural Heritage Agency (Rijksdienst voor het Cultureel Erfgoed (RCE), of the Dutch Ministry of Education, Culture and Sciences) and Data Archiving and Networked Services (DANS) provided additional funding. Work on the data in the repository was funded in part by the participating laboratories.

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Jansma, E., R.J. van Lanen, P.W. Brewer & R. Kramer (2012a): The DCCD: a digital data infrastructure for tree-ring research. Dendrochronologia (in press), <http://dx.doi.org/10.1016/j.dendro.2011.12.002>.

Jansma, E., R.J. van Lanen, K. Sturgeon, S. Mohlke & P.W. Brewer, 2012b: TRiDaBASE, a stand-alone database for storage, analysis and exchange of dendrochronological metadata. Dendrochronologia 30(3), 209-211. [doi:10.1016/j.dendro.2011.09.002](https://doi.org/10.1016/j.dendro.2011.09.002).

Websites

<http://dendro.dans.knaw.nl>

<http://www.uu.nl/vkc/dendrochronology>

<http://www.tridas.org>

<http://tridas.org/forum/>

DCCD repository for tree-ring data

DCCD user information, DCCD project website

TRiDaS: technical descriptions, software

Discussion forum (TRiDaS, TRiDaS-based software)