

OzFlux User Guide

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Getting Started

Where Is It?

<http://ozflux.its.monash.edu.au/ecosystem/home>

Register As A New User

1

OzFlux Australian and New Zealand Flux Research and Monitoring

Register Login

HOME COLLECTIONS SEARCH ABOUT US

Home

Introduction

OzFlux is a national ecosystem research network consisting of 10 flux stations at present with a further 6 planned for installation in 2011, all funded under the TERN 1 initiative. Funding for 6 more sites has been requested under the TERN-EF initiative. The final network of 21 sites will provide the Australian and global ecosystem modelling communities with nationally consistent observations of energy, carbon and water exchange between the atmosphere and key Australian ecosystems. OzFlux is part of an international network (FluxNet) of over 500 flux stations that is designed to provide continuous, long-term micrometeorological measurements to monitor the state of ecosystems globally.

A Central Node administered by CSIRO Marine and Atmospheric Research coordinates the OzFlux network, determines protocols for measurements, data processing and quality control, provides a database to archive data from each site and provides training to site operators as required. A 7 member Steering Committee chaired by Dr Helen Cleugh (CMAR) and Associate Professor Mike Liddell (James Cook University) provides scientific leadership for the network and coordinates logistics as required.

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Click on the "Register" link in the top right corner of the Home page.

2

OZ Flux Australian and New Zealand Flux Research and Monitoring Register Login

HOME COLLECTIONS SEARCH ABOUT US

» User Registration

Please choose one of the following registration options:

Monash User Registration

User Self-Registration

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Select either "Monash User Registration" if you have a Monash Authcate, or "User Self-Registration" if you do not have a Monash Authcate.

3

OZ Flux Australian and New Zealand Flux Research and Monitoring Register Login

HOME COLLECTIONS SEARCH ABOUT US

» User Registration » Monash User Registration

Monash Authcate ID: * Your Monash Authcate ID

Password: * Your Monash Authcate password

Word Verification: * Type the characters you see in the picture below

can't read this?

If you already have an account, please [Sign in now](#)

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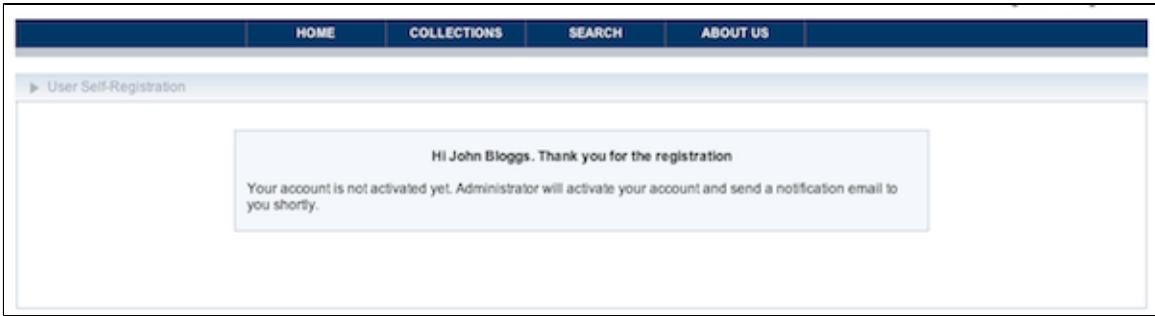
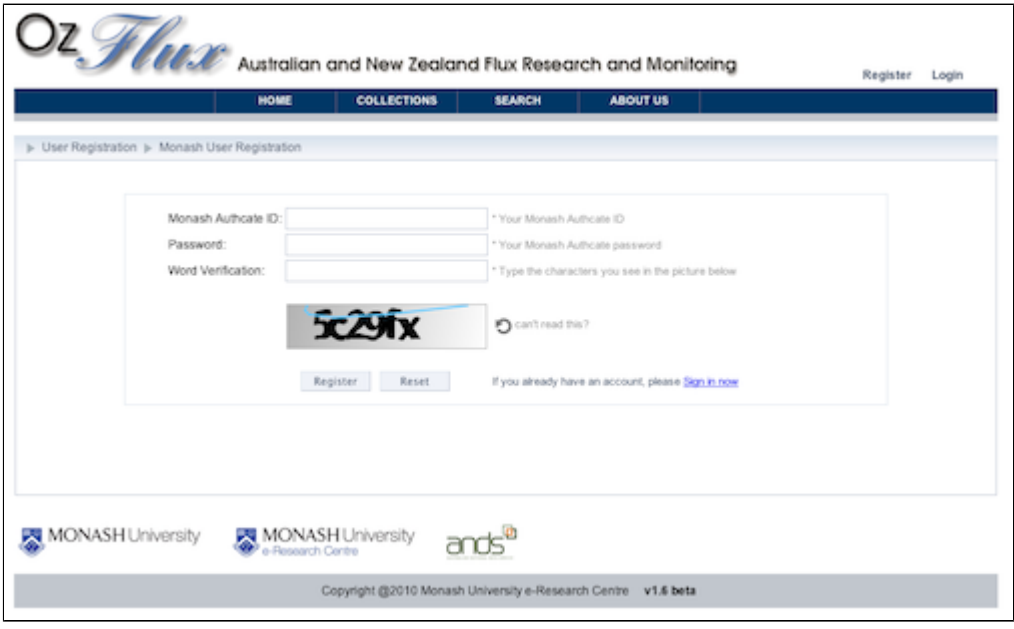
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Complete the form for registration details.

If you have selected to register with a Monash Authcate this will automatically use the details linked to your Authcate to register. You will simply need to provide your Authcate and password.

If you have selected to register via the Self-Registration link you will be required to enter details about yourself such as name, email and organisation.

In each case a word verification is required. This is a security measure to ensure you are human.

4		<p>All new registration requests will be sent to the system administrator for review and activation. This is a manual process. You will receive an email when your account has been activated and is ready for use.</p>
5		<p>Login to OzFlux using your registered and activated credentials using the link in the top right corner of the Home page.</p>

Creating A New Data Collection

1

The screenshot displays the OzFlux web application interface. At the top, the logo "OzFlux" is followed by the text "Australian and New Zealand Flux Research and Monitoring". A navigation bar contains links for HOME, ALL COLLECTIONS, USERS, SEARCH, and ABOUT US, with a Logout link on the right. Below the navigation bar, the page title is "User Home". The main content area is divided into two columns. The left column contains a "Profile" section with user details: User name: Virginia Gutierrez, Gender: Female, Joined: 2011-07-18, Email: Virginia.Gutierrez@monash.edu, and Organization: Monash University. Below the profile are sections for "Permission Requests" (No Permissions Requests) and "Latest Events" (No Events). The right column features a vertical menu with buttons for My Home, My Collections, New Collection (highlighted with a red box), All Collections, and User Events. Below the menu is a user profile picture and the name "Virginia Gutierrez". At the bottom of the page, there are logos for Monash University, Monash University e-Research Centre, and ands, along with the copyright notice "Copyright ©2010 Monash University e-Research Centre v1.6 beta".

Login to your account. You will be automatically taken to your personal homepage.

From the menu options on the right select "New Collection".

OZ Flux Australian and New Zealand Flux Research and Monitoring Logout

HOME ALL COLLECTIONS USERS SEARCH ABOUT US

My Collections > New Collection

Collection Name:
* (Collection name, maximum 80 characters in length)

My Collection

☒ Private Collection
* (Tick the checkbox, will set the collection as a private collection)

Temporal Coverage From:
* (The start date for a temporal coverage period of the collection)

2011-07-01

Temporal Coverage To:
* (The end date for a temporal coverage period of the collection)

2011-07-31

Description:
* (Collection description, maximum 4000 characters in length)

This is the description of my collection.

Spatial Coverage:
* (The spatial coverage of the collection, please use google map to setup the spatial coverage)

147 480469,-30.297018

Choose a method for marking spatial coverage from the options in the gray bar above the map.

point region search coords... clear

Map Satellite Terrain

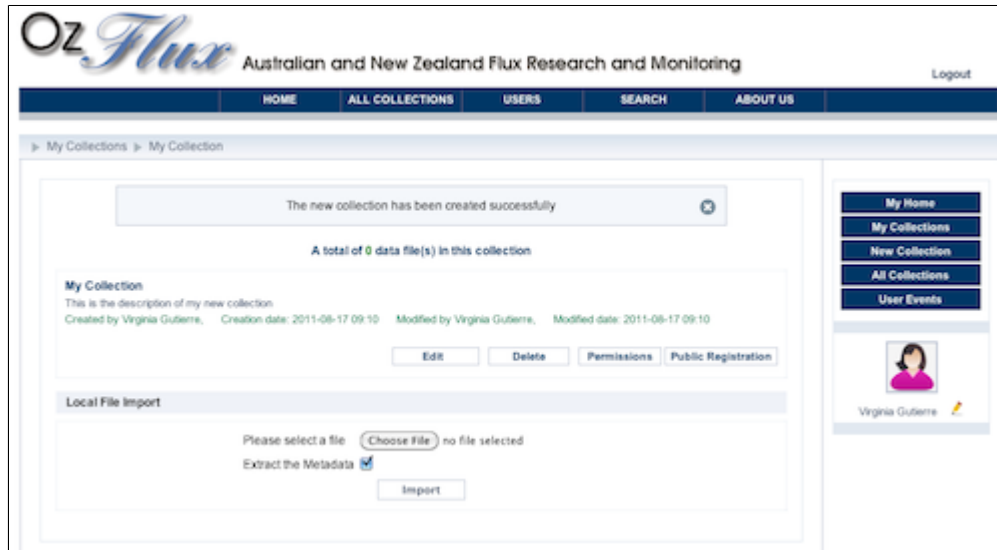
Map data ©2011 Europe Technologies, Tele Atlas • Terms of Use

Create Reset

Enter the metadata details of your new collection in the provided fields.

Note: We recommend you create all new collections as a private collection. (This can be changed at a later date). To do this ensure the "Private Collection" checkbox is checked. For details of why this is recommended please see the section in this guide on Sharing Your Data Collection.

When you have completed filling out all the mandatory fields click "Create" to create your new collection.



Your new collection has been created.

You can now add files via Local File Import. See the Adding Data Files To Your Data Collection in this user guide for more details.

At any time you may "Edit", "Delete" and change "Permissions" on your data collection using the buttons below the description.

Adding Data Files To Your Data Collection

Local File Import

This functionality allows you to add files to your Data Collection via browsing and importing directly from your local PC.

1

OzFlux Australian and New Zealand Flux Research and Monitoring Logout

HOME ALL COLLECTIONS USERS SEARCH ABOUT US

» User Home

Profile

User name: Virginia Gutierre
Gender: Female
Joined: 2011-07-18
Email: Virginia.Gutierre@monash.edu
Organization: Monash University [Edit Profile](#) [Change Password](#)

Permission Requests

No Permissions Requests

Latest Events

- 17-08-2011 at 09:13 AM My Collection has been created, by Virginia Gutierre
- 17-08-2011 at 09:12 AM My Collection has been deleted, by Virginia Gutierre
- 17-08-2011 at 09:10 AM My Collection has been created, by Virginia Gutierre


My Home




[My Collections](#)

[New Collection](#)

[All Collections](#)

[User Events](#)


Virginia Gutierre

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Login to your account. You will automatically be taken to your personal homepage.

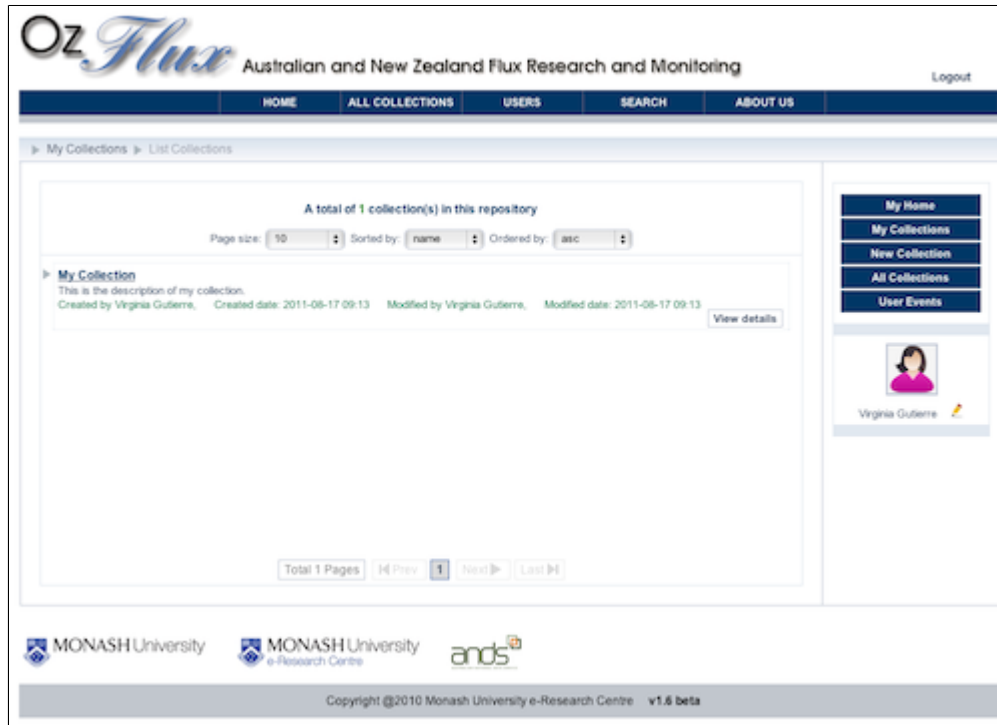
Find the collection you wish to import data files into.

This may be one of your existing collections which you can find by clicking "My Collections".

This may be a new collection which you can create by clicking "New Collection".

This may be a collection added by someone else if they have granted you Import permissions. You can find this collection by clicking "All Collections".

2



OZFlux Australian and New Zealand Flux Research and Monitoring Logout

HOME ALL COLLECTIONS USERS SEARCH ABOUT US

My Collections > List Collections

A total of 1 collection(s) in this repository

Page size: 10 Sorted by: name Ordered by: asc

> My Collection
This is the description of my collection.
Created by Virginia Gutierrez, Created date: 2011-06-17 09:13 Modified by Virginia Gutierrez, Modified date: 2011-06-17 09:13 [View details](#)

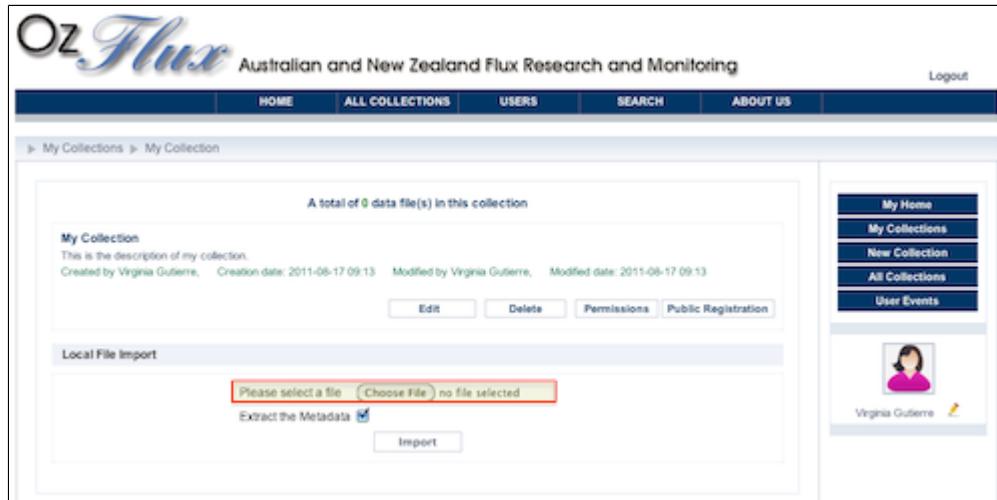
Total 1 Pages < Prev 1 Next > Last >

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Find the collection you wish to import a data files into from the list displayed. Click "View Details".

3



OZFlux Australian and New Zealand Flux Research and Monitoring Logout

HOME ALL COLLECTIONS USERS SEARCH ABOUT US

My Collections > My Collection

A total of 0 data file(s) in this collection

My Collection
This is the description of my collection.
Created by Virginia Gutierrez, Creation date: 2011-06-17 09:13 Modified by Virginia Gutierrez, Modified date: 2011-06-17 09:13

[Edit](#) [Delete](#) [Permissions](#) [Public Registration](#)

Local File Import

Please select a file [Choose File](#) no file selected

Extract the Metadata ☒

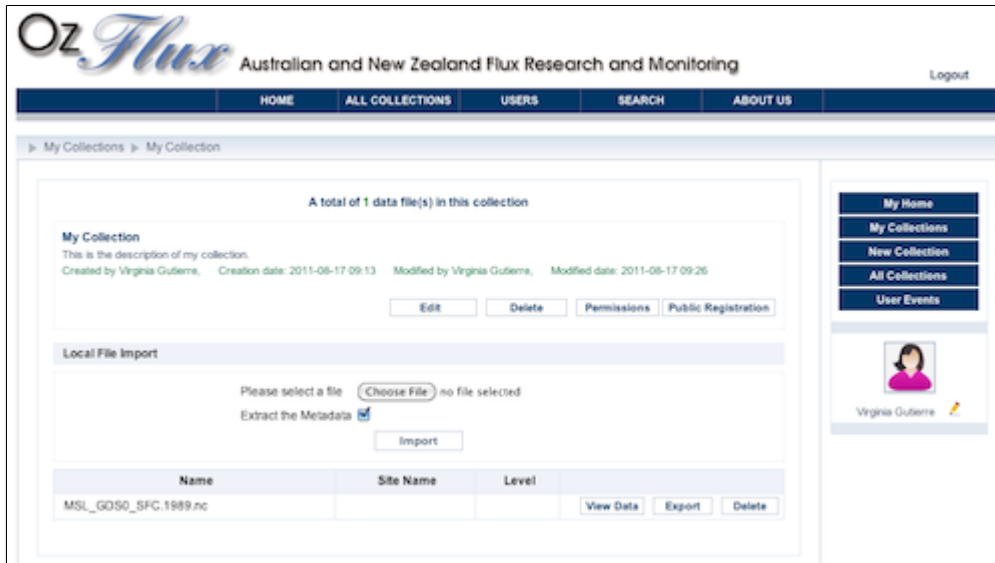
[Import](#)

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In the Data Collection details window there will be a section called "Local File Import". Click on the "Choose File" button to open a browser window to your local PC. Browse your local PC to find the file you wish to upload and select it.

4	<div data-bbox="207 153 1279 331"> <div>Local File Import</div> <div> Please select a file <input type="button" value="Choose File"/> MSL_GDS0_SFC.1989.nc </div> <div> Extract the Metadata <input checked="" type="checkbox"/> </div> <div><input type="button" value="Import"/></div> </div>	<p>The name of the file you have selected will this appear next to the "Choose File" button.</p> <p>The "Extract the Metadata" functionality will scan known file types and extract summary metadata if the box is checked. Currently file types supported for this functionality are:</p> <ul style="list-style-type: none"> - NetCDF <p><i>If your file is not a supported file type you must ensure the "Extract the Metadata" box is unchecked or else the file import will fail.</i></p> <p>Click Import</p>
5	<div data-bbox="207 1184 1279 1444"> <div>Local File Import</div> <div> <div>Importing: MSL_GDS0_SFC.1989.nc</div> <div> <div>94% completed (152.25 MB of 161.76 MB)</div> <div>Time remaining: 2 sec.</div> <div>Transfer rate: 27.43 MB / sec</div> </div> </div> <div> Please select a file <input type="button" value="Choose File"/> no file selected </div> <div> Extract the Metadata <input checked="" type="checkbox"/> </div> <div><input type="button" value="Import"/></div> </div>	<p>Import progress bar.</p>



When the file has been successfully imported a system message will appear at the top of the page indicating success. The imported file will now appear listed at the bottom of the Data Collection details window.

Sharing Your Data Collection

Legal Considerations Of Sharing Data

Please note the Terms and Conditions of the Monash University Climate and Weather system constitute the official legal terms and conditions of the system and its usage, including data sharing policy. These notes that follow are intended in good faith to highlight some relevant points covered in the Terms and Conditions that we feel will be important for system users to be aware of, however this is not in anyway legally binding. The official Terms and Conditions of use of the system should be referred to in all cases as the legally binding document.

The Monash University Climate and Weather system is a web based system. Therefore please be aware that when you make a Data Collection public you are providing unconditional access to your data to the general public. Any member of the public may view and copy all or any of your data. You may remove public access to your Data Collection within the Monash University Climate and Weather program at any time however this does not remove any copies that anyone in the public has made of your data.

Potential ramifications of making the Data Collection public:

- Any patent application relying on this data will be rendered invalid.
- Anyone may copy this data and use it as the basis for publication.
- Copies of your data may remain in the hands of member of the public even after you remove 'public' access permission.

Consideration of copyright ownership of the data should also be taken into account before sharing data to ensure all appropriate permissions have been sought and granted.

You may wish to assign a licence of use to your data collection before making it public. This is a mandatory step prior to registering your collection with Research Data Australia (RDA); the system will step you through the process of selecting a licence. However if you choose to make your collection public prior to registering with ANDS you may still wish to assign a licence of use to your data. One way to do this is to write the details of the licence into the description field for the Data Collection. The current recommendation is a Creative Commons Licence - see <http://creativecommons.org.au/> for more information.

Because of this we recommend that all Data Collections start off as private collections. Licences can then be assigned and permissions can be changed to grant individual and public access at a later stage.

Access Control Permissions Definition

There are three types of the access control permissions for a collection in the system:

- All Anonymous Users Permissions - Permissions which are granted to all users who are not logged in the system (the public)
- All Registered Users Permissions - Permissions which are granted to all registered users in the system
- Individual User Permissions - Permissions which are granted to a registered user in the system

Permissions can be granted to All Registered Users or All Anonymous Users or An Individual User.

If no access permissions are granted to All Registered Users and All Anonymous Users the collection is private.

Definitions:

- View - May view only
- Edit - May edit collection. View automatically assigned.
- Import - May import files to collection. View automatically assigned.
- Export - May export full data files from collection. View automatically assigned.
- Delete - May delete the collection. View automatically assigned.
- Permission - May change permissions assigned to the collection. View automatically assigned.


When a Data Collection is set to 'Public' on creation this will assign "View" and "Export" permissions to All Anonymous Users.

When granting specific permissions to an individual user in a collection, user permissions are inherited from the permissions which you have granted to All Anonymous Users in the same collection.

Share Your Data Collection With An Individual User

Data Collections may be shared with a specific user or a number of specific users. All users shared with in this way must be registered users of the system.

1



Australian and New Zealand Flux Research and Monitoring

Logout

[HOME](#) | [ALL COLLECTIONS](#) | [USERS](#) | [SEARCH](#) | [ABOUT US](#)

» My Collections » My Collection

A total of 1 data file(s) in this collection

My Collection
This is the description of my collection.
Created by Virginia Gutierrez, Creation date: 2011-06-17 09:13 Modified by Virginia Gutierrez, Modified date: 2011-06-17 09:26

[Edit](#) | [Delete](#) | [Permissions](#) | [Public Registration](#)

Local File Import


Please select a file [Choose File](#) no file selected

Extract the Metadata ☒

[Import](#)

Name	Site Name	Level	
MSL_GOSO_SFC.1989.nc			View Data Export Delete

[My Home](#)
[My Collections](#)
[New Collection](#)
[All Collections](#)
[User Events](#)


 Virginia Gutierrez

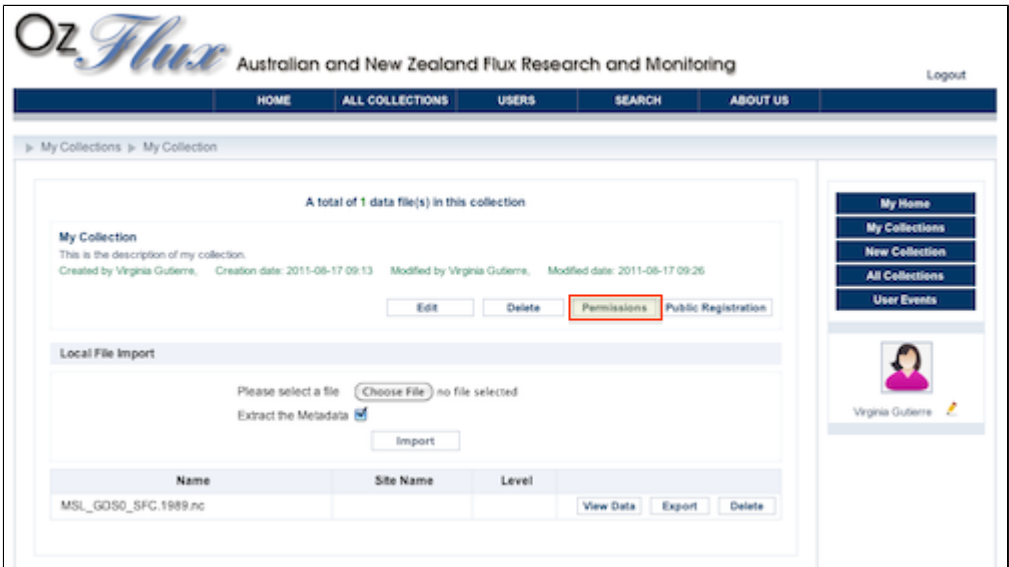
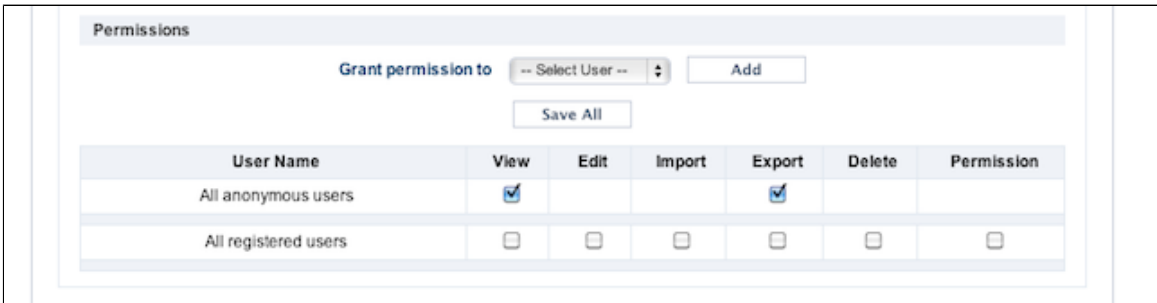
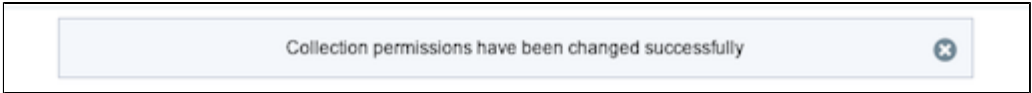
Find the Data Collection you wish to share and click on the "Permissions" button in the Data Collection View Details window.

2		<p>Click on the drop down box next to "Grant permission to" and select the user you wish to share with.</p> <p>Click Add</p> <p>This may be done as many times as required to add all the individual users you wish to share with.</p>
3		<p>The user that you have selected will now appear with their own line in the permissions table.</p>
4		<p>Check the boxes to assign the permissions you wish to grant to the user you have selected.</p> <p>Click "Save All"</p>
5		<p>The permissions are saved.</p>

Make Your Data Collection Public

Data Collections may be made public by sharing with "All Anonymous Users". This gives access to anyone, even if they are not logged in, to view the Data Collection. There are two levels of permissions that can be applied:

1. View only. This allows the public to view the Data Collection but only global metadata fields of the data files. They are not able to export the data files.
2. View and Export. This allows the public to view and export all the data files. They will have full access to view and copy the entire Data Collection.

1	 <p>The screenshot shows the OzFlux website with the 'My Collection' page. The 'Permissions' button is highlighted with a red box. The page includes a navigation bar, a sidebar with links like 'My Home', 'My Collections', and 'New Collection', and a main content area with a table of data files. The 'Permissions' button is located in the top right of the main content area.</p>	Find the Data Collection you wish to share and click on the "Permissions" button in the Data Collection View Details window.
2	 <p>The screenshot shows the 'Permissions' dialog box. It has a 'Grant permission to' dropdown menu set to 'All anonymous users'. Below the dropdown is a table with columns: User Name, View, Edit, Import, Export, Delete, and Permission. The 'All anonymous users' row has the 'View' and 'Export' checkboxes checked. The 'All registered users' row has all checkboxes unchecked. There is a 'Save All' button at the bottom.</p>	Check the one or both of the View and Export checkboxes in the "All Anonymous Users" row in the permissions table. Click "Save All"
3	 <p>The screenshot shows a success message in a light blue box: 'Collection permissions have been changed successfully'. There is a close button (X) in the top right corner of the box.</p>	The permissions are saved.

Public Registration Of Your Data Collection

This system allows for registration of your data collection to Research Data Australia (RDA). RDA is a mesh of searchable web pages describing, (and where possible linking to), Australian research data collections. RDA promotes re-use of data to enhance research outcomes in Australia. Examples of how data reuse may provide benefit are:

- Enabling verify research claims
- Solve big problems across disciplinary boundaries
- Enable new discoveries from old data
- Enable re-analysis of expensive, rare, or unrepeatable investigations

- Create longitudinal time-series observations for analysis
- Avoid duplication of effort

Link to RDA here: <http://services.ands.org.au/home/orca/rda/>

Research Data Australia is provided by the Australian National Data Service (ANDS). ANDS seeks to support public access to as much publicly funded research data as can be provided within the constraints of privacy, copyright and technology. ANDS is supported by the Australian Government through the National Collaborative Research Infrastructure Strategy Program and the Education Investment Fund (EIF) Super Science Initiative.



1

 The screenshot shows the OzFlux web interface. At the top, there's a header with the "OzFlux" logo and the text "Australian and New Zealand Flux Research and Monitoring". A navigation bar contains links for HOME, ALL COLLECTIONS, USERS, SEARCH, and ABOUT US. A "Logout" link is in the top right. Below the navigation bar, the page title is "My Collections > My Collection". The main content area shows "A total of 1 data file(s) in this collection". Under "My Collection", there's a description and metadata: "Created by Virginia Gutierrez, Creation date: 2011-06-17 09:13, Modified by Virginia Gutierrez, Modified date: 2011-06-17 09:26". Below this are buttons for "Edit", "Delete", "Permissions", and "Public Registration" (which is highlighted with a red box). The "Local File Import" section has a "Choose File" button (disabled) and a checkbox for "Extract the Metadata" (checked). Below this is an "Import" button. A table lists the data file:

Name	Site Name	Level	
MSL_GOS0_SFC.1989.nc			View Data Export Delete

 On the right side, there's a sidebar with a "My Home" button, a list of collection-related buttons, and a user profile for "Virginia Gutierrez".

Find the Data Collection you will register with ANDS and click on "Public Registration" button in the Collection View Details window

2

OzFlux Australian and New Zealand Flux Research and Monitoring

Logout

HOME ALL COLLECTIONS USERS SEARCH ABOUT US

My Collections > My Collection > Public Registration

My Collection
This is the description of my collection.
Created by Virginia Guilleme, Creation date: 2011-06-17 09:13 Modified by Virginia Guilleme, Modified date: 2011-06-17 09:26

View details

Public registration of the following metadata associated with this collection with the Research Data Australia website

Please select the associated researcher(s) **Add Researcher**

The associated researcher(s) not found

Please select the associated grant(s) or project(s)

The associated grant(s) or project(s) not found

Please select the collection License **Select License**

Access rights

This work is available on request to Virginia Guilleme at Virginia.Guilleme@monash.edu

Preview Metadata

My Home
My Collections
New Collection
All Collections
User Events

Virginia Guilleme

The Public Registration page p
functionality to allow you to set
following metadata fields for the
collection:

- researcher (see steps below)
- grant
- licence (see steps below)

If you are a researcher register
Monash Research Master data
you have grants associated wit
name all these grants will be lis
checkbox next to each. You are
select any number of grants to
with a data collection, (including
*Note: Only grants associated w
the Authcate Authenticated log
will be available for selection.)*
select a grant you are not asso
in Monash Research Master.

Access Rights for your data col
be set automatically based on t
permissions you have for your
collection.

For example if you have the co
up as a private collection the te
work is available on request to
name> at <your email address:
appear. If you have the collecti
as a public collection a public L
inserted.

3

Adding another researcher

Adding Researcher Options

Select one of the following adding researcher options:

☒ Search a researcher from the Research Master Web Service

☐ Manually Input a researcher information

Cancel Next

Add Researcher - 1

If you are a researcher who is r
in the Monash Research Maste
your name will automatically be
selected.

You may add additional resear
clicking "Add Researcher" and
the steps to add another resea
from Monash Research Master
or manually from an external in

**At least one researcher must
associated with the data coll**

4

Adding another researcher

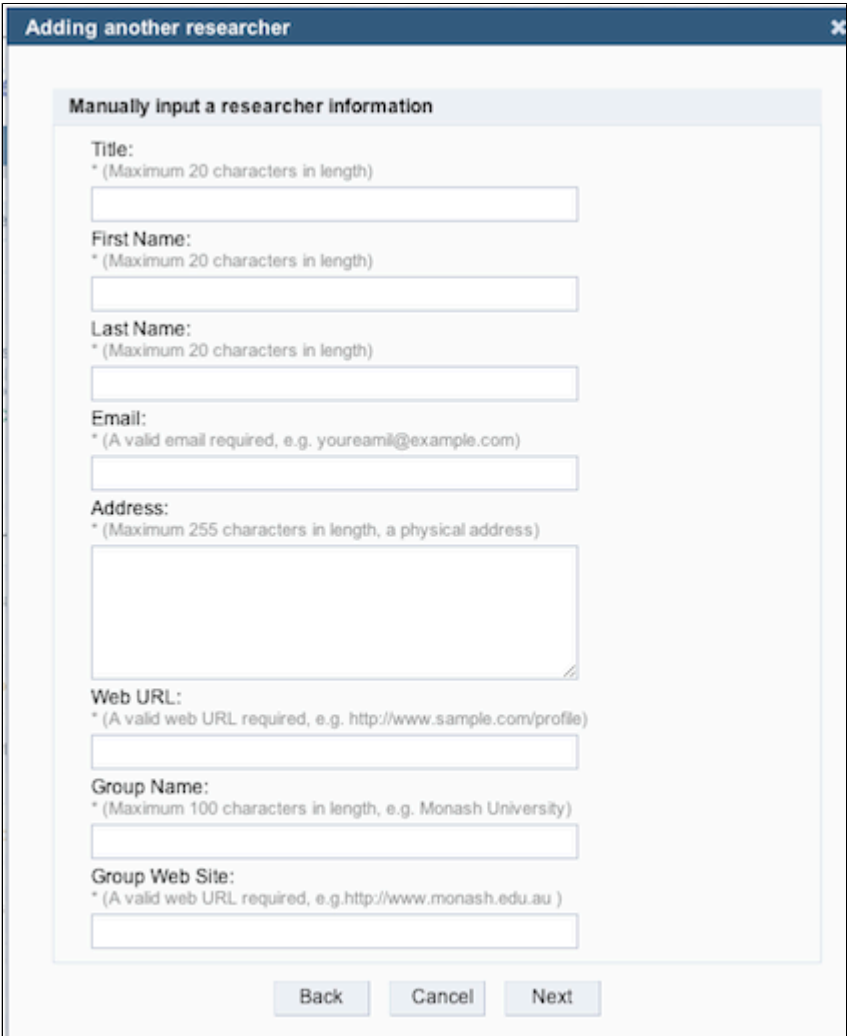
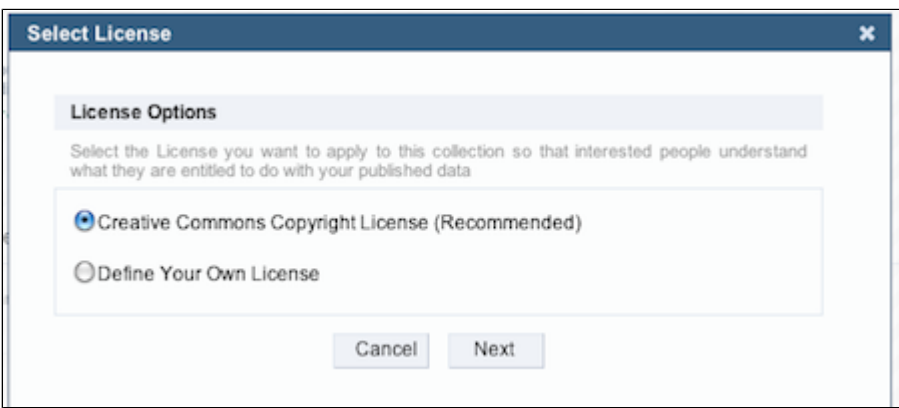
Search a researcher from the Research Master Web Service

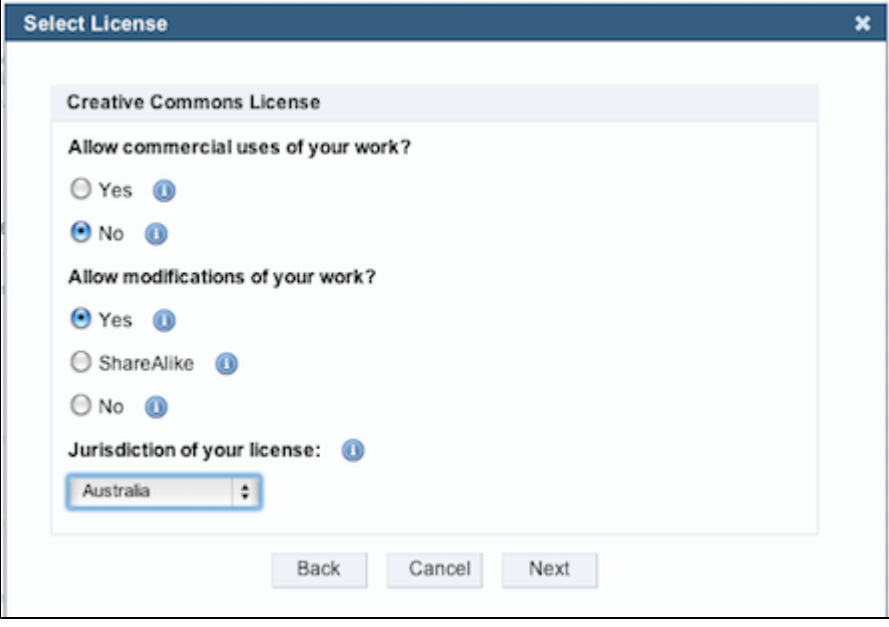
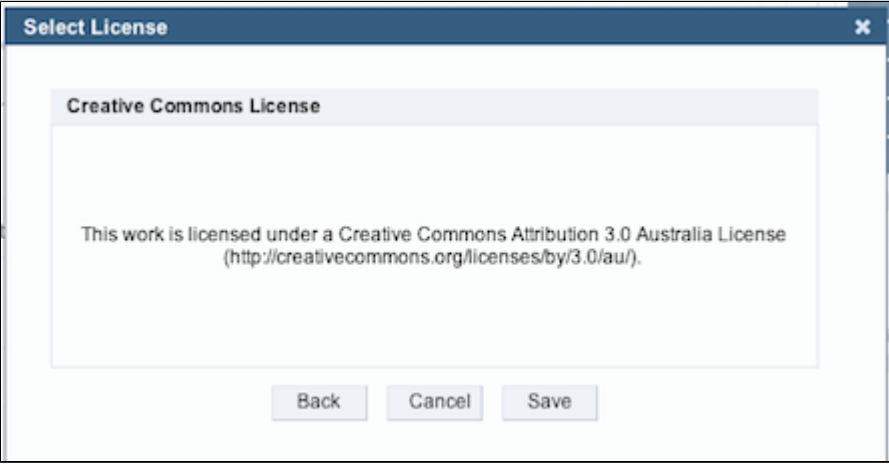
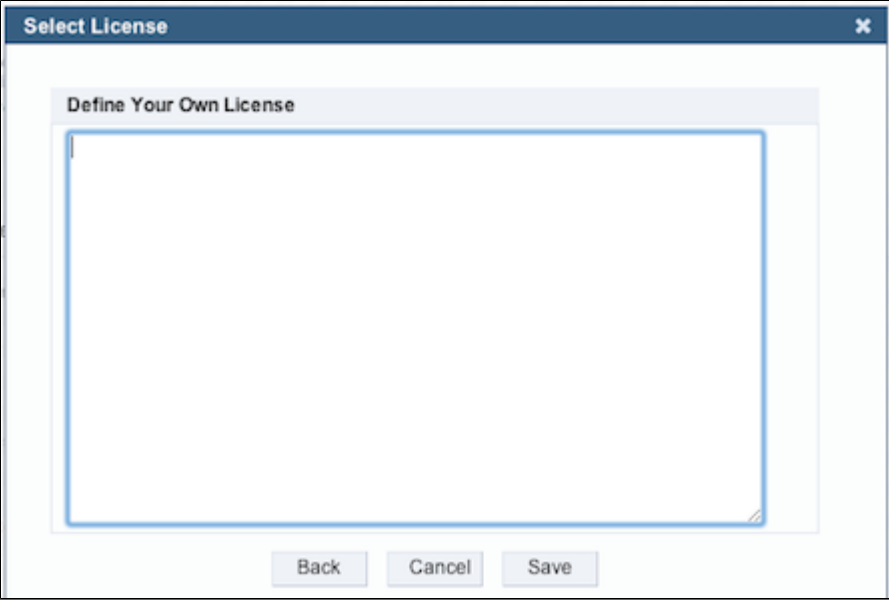
Enter the researcher name or email bellow:

Back Cancel Next

Add Researcher - 2

If you selected "Search a resea
the Research Master Web Ser
search field will be provided to
for the researcher. Enter the n
email address of the researche
Monash researchers should be
searchable in this way.

5		<p>Add Researcher - 3</p> <p>If you select "Manually input re: information" a screen will appe: details about the researcher. A this screen are mandatory.</p>
6		<p>Add Licence - 1</p> <p>Before you may register your d collection in RDA it is necessar a licence that will determine ho public may use your data.</p> <p>The current recommendation o university is to choose a Creati Commons Licence.</p> <p>For more details on the Creativ Commons Licence structure se http://creativecommons.org.au/</p> <p>If you have any concerns aroure or public sharing of your data w recommend you seek legal adv</p>

7		<p>Add Licence - 2</p> <p>If you select a Creative Commons Licence you will be asked a number of questions around how your work can be reused.</p> <p>You will also be asked what jurisdiction you wish your licence to fall under. The default is 'Australia'. This provides an international licence with additional Australian legislation built in.</p>
8		<p>Add Licence - 3</p> <p>Based on your selections of the Creative Commons Licence questions the final version of your licence will be generated.</p>
9		<p>Add Licence - 4</p> <p>If you choose to "Define Your Own License" you will be provided with a large text box.</p> <p>Before using this option you must seek legal advice.</p>

OzFlux Australian and New Zealand Flux Research and Monitoring

Logout

HOME ALL COLLECTIONS USERS SEARCH ABOUT US

» My Collections » My Collection » Public Registration

My Collection
This is the description of my collection.
Created by Virginia Guterre, Created date: 2011-06-17 09:13 Modified by Virginia Guterre, Modified date: 2011-06-17 09:26

[View details](#)

Public registration of the following metadata associated with this collection with the Research Data Australia website

Address:	Monash University Clayton Campus Building 26 Clayton 3800 Victoria
Field of research (ANZSRC):	960501
Output of:	Not Provided
Managed by:	Dr Peter Isaac - Monash University
License:	This work is licensed under a Creative Commons Attribution 3.0 Australia License (http://creativecommons.org/licenses/by/3.0/au/).
Access rights:	This work is available on request to Virginia Guterre at Virginia.Guterre@monash.edu

Monash University Repository License

Monash University (ABN 12 377 614 012) ("University") maintains a digital repository ("Repository") in which it stores and makes available various works via the Internet or other electronic means.

By submitting material for the Repository ("Work") the person(s) submitting the Work ("Depositor") agree to the following terms and conditions.

Please refer to <http://www.monash.edu/ulresearch/about/lands-mem.html> for the Terms and Conditions

[I accept. Register](#)

My Home
My Collections
New Collection
All Collections
User Events

Virginia Guterre

When you have finished select researcher, grant and licence c "Preview Metadata" button at th of the screen.

In the preview screen you can i the metadata details that will be associated with the data collect RDA.

If you are happy with the detail: click "Register". The data collec then be publicly registered in R

Note: There is a review step th. data collection goes through be publicly searchable on RDA. Tl take anything from less than ar number of weeks. Once it has , review the collection may be lo searching in RDA via the follow

<http://services.ands.org.au/hor>

Troubleshooting

File Import Failing

1. Ensure you have internet connectivity!
2. Ensure you have only checked the "Extract the Metadata" checkbox if you are importing a supported file type. (NetCDF)



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