

# BigBrain Data Processing with CBRAIN and DataLad Hands-On Session

6<sup>th</sup> BigBrain Workshop - Young Researchers Event

October 25, 2022  
Zadar, Croatia

Bryan Caron, PhD  
McGill University

# Exercises Outline

- **Part 1:** DataLad and Boutiques (20 - 25')
- **Part 2:** NeuroHub and CBRAIN (20 - 25')

# Datalad and Boutiques Exercises

- Google Colab Notebook (Google Account required)
    - Open the Colab Tutorial Notebook  
<https://bit.ly/2022-yre-datalad-cbrain>
- **Exercise 1:** Finding BigBrain Datasets in DataLad
- **Exercise 2:** Installing and downloading BigBrain Datasets
- **Exercise 3:** Processing BigBrain Datasets with Boutiques
- **Exercise 4 (Optional):** Uploading Derived Data to DataLad

# CBRAIN Exercises

- **Exercise 1:** Connect to NeuroHub, navigate to the BigBrain dataset in CBRAIN
- **Exercise 2:** Launch BigBrainWarp on 1 file
- **Exercise 3:** Monitor task
- **Exercise 4:** Explore results
- **Exercise 5 (Optional):** Launch BigBrainWarp on multiple files
- **Exercise 6 (Optional):** Download the results

# Setup (Exercise 1)

The screenshot shows the NeuroHub dashboard with a dark theme. At the top, there's a header bar with the NeuroHub logo, user info (Bryan Caron, bcaron), and navigation links: Dashboard (highlighted in red), Projects, Storage, Messages (with 11 notifications), My Account, Documentation, and Logout. A search bar is also at the top.

**Welcome bcaron**

**Reminder - Summary List of Available Datasets and Tools - October 23, 2022**

The list of tools and datasets available in NeuroHub can be easily accessed at the link [here](#).

**New CONP Datasets Added - April 28, 2022**

Twenty four new CONP Public Datasets have just been added  
→ 29930 files, 663.1 GB

**Recently added datasets - October 22, 2020**

2020-07-13: UK BioBank T1s in MINC (UKBB, request access)  
→ 39,676 MincFiles, 482.1 GB  
2020-08-28: Visual Working Memory (CONP, public)  
→ 19 BidsSubjects, 209 files, 6.4 GB  
2020-10-13: Open PreventAD (CONP, request access)  
→ 308 FileCollections, 28,747 files, 237.9 GB  
2020-10-13: Open PreventAD BIDS (CONP, request access)  
→ 308 BidsSubjects, 53,053 files, 246.0 GB  
2020-10-22: UK BioBank CIVET outputs (UKBB, request access)  
→ 39,207 CivetOutputs, 9,135,212 files, 26.3 TB  
2020-11-15: OpenPain (CONP, 6 datasets, public)  
→ 7,203 files, 806 GB

Please do not copy large sections of these datasets; if you need help extracting information out of them, contact us, we will prepare this for you.

**Latest Tasks**

	BigBrainWar...	<a href="#">8 bcaron</a>	Completed	Caron - BigBrain Resea...
	BigBrainWar...	<a href="#">8 bcaron</a>	Completed	Caron - BigBrain Resea...
	BigBrainWar...	<a href="#">8 bcaron</a>	Completed	Caron - BigBrain Resea...
	BigBrainWar...	<a href="#">8 bcaron</a>	Completed	Caron - BigBrain Resea...
	BigBrainWar...	<a href="#">8 bcaron</a>	Completed	Caron - BigBrain Resea...

**Latest Updated Files**

	bigbrainwar...	<a href="#">8 bcaron</a>	345.9 MB	Caron - BigBrain Resea...
	bigbrainwar...	<a href="#">8 bcaron</a>	30.4 MB	Caron - BigBrain Resea...
	bigbrainwar...	<a href="#">8 bcaron</a>	52.3 MB	Caron - BigBrain Resea...
Screenshot		<a href="#">8 bcaron</a>	187.2 MB	Caron - BigBrain Resea...

# Setup (Exercise 1)

Tools		
Name and description	Versions	Availability
AbcdHcpPipeline ( <a href="#">more</a> )	v0.0.3, v0.0.3-blynch	Restricted/on demand
AntsRegistration	2.1.0-gGIT-N	Restricted/on demand
APPANPET ( <a href="#">more</a> )	1, minc	Generally open
BashScriptor ( <a href="#">more</a> )	CBRAIN-Latest	Restricted/on demand
BEst ( <a href="#">more</a> )	1.0, 1.0test, 1.1	Restricted/on demand
BEst_cMEM ( <a href="#">more</a> )	1.2	Restricted/on demand
BEst_wMEM ( <a href="#">more</a> )	1.2	Restricted/on demand
BIDSAppAbcdHcpPipeline ( <a href="#">more</a> )	v0.0.3	Restricted/on demand
BIDSAppFMRIPrep ( <a href="#">more</a> )	1.2.3	Restricted/on demand
BIDSAppFreesurferAparcstats2table ( <a href="#">more</a> )	v6.0.0	Restricted/on demand
BIDSAppFreesurferReconAll ( <a href="#">more</a> )	6.0.0, 6.0.0-demo, 6.0.0-manual, v6.0.0	Generally open

Datasets	
Name and description	Availability
Abide-BIDs ( <a href="#">more</a> )	Restricted/on demand
CONP-1000-Genomes ( <a href="#">more</a> )	Generally open
CONP-BigBrain ( <a href="#">more</a> )	Generally open
CONP-CFMM-7T ( <a href="#">more</a> )	Generally open
CONP-MurineNeocorticalNeurons ( <a href="#">more</a> )	Generally open
CONP-NIH-NHP-Atlas ( <a href="#">more</a> )	Generally open
CONP-OpenPain ( <a href="#">more</a> )	Generally open
CONP-OpenPreventAD ( <a href="#">more</a> )	Restricted/on demand
CONP-SIMON ( <a href="#">more</a> )	Generally open
CONP-VisualWorkingMemory ( <a href="#">more</a> )	Generally open
HCP_1200_Squash ( <a href="#">more</a> )	Restricted/on demand
NeuroHub-UKBB-Access ( <a href="#">more</a> )	Restricted/on demand

<https://portal.neurohub.ca/available>

# Setup (Exercise 1)

The screenshot shows the NeuroHub web application interface. At the top, there is a navigation bar with links for Dashboard, Projects (which is highlighted with a red box), Storage, Messages (with a notification count of 11), My Account, Documentation, and Logout. Below the navigation bar, there is a search bar with the placeholder "Search files, tasks, projects".

The main content area is divided into several sections:

- Welcome bcaron**: A greeting message for the user "bcaron".
- NeuroHub News**: A section containing a reminder about available datasets and tools, dated October 23, 2022. It includes a link to access the list of tools and datasets.
- New CONP Datasets Added - April 28, 2022**: A red-highlighted section announcing new CONP Public Datasets added on April 28, 2022. It states that twenty-four new datasets were added, totaling 29930 files and 663.1 GB.
- Recently added datasets - October 22, 2020**: A red-highlighted section listing recently added datasets from October 22, 2020. The list includes:
  - 2020-07-13: UK BioBank T1s in MINC (UKBB, request access)  
→ 39,676 MincFiles, 482.1 GB
  - 2020-08-28: Visual Working Memory (CONP, public)  
→ 19 BidsSubjects, 209 files, 6.4 GB
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→ 39,207 CivetOutputs, 9,135,212 files, 26.3 TB
  - 2020-11-15: OpenPain (CONP, 6 datasets, public)  
→ 7,203 files, 806 GB
- Please do not copy large sections of these datasets; if you need help extracting information out of them, contact us, we will prepare this for you.**: A note at the bottom of the recent datasets section.
- Latest Tasks**: A table showing the latest completed tasks. Each row includes a thumbnail, the task name (BigBrainWar...), the user (bcaron), the status (Completed), a preview icon, the task name again, and the timestamp (e.g., 2022-10-20 17:17:11 EDT).
- Latest Updated Files**: A table showing the latest updated files. Each row includes a thumbnail, the file name (bigbrainwar...), the user (bcaron), the file size (e.g., 345.9 MB), a preview icon, the file name again, and the timestamp (e.g., 2022-10-20 17:17:11 EDT).

# Setup (Exercise 1)

The screenshot shows the NeuroHub interface with the 'Projects' tab selected. There are four project cards displayed:

- HCP\_1200\_Squash** (admin\_prioux): Dataset HCP\_1200 access, squashfs filesystem. Contact support@neurohub.ca if you are interested in accessing these files. Files: 1113, Tasks: 0, Users: 432.
- NeuroHub-UK-Biobank** (dquesnel): UK BioBank datasets on NeuroHub. Contains: 40,000 NII files, 40,000 MINC files, 40,000 BIDS Subjects, 40,000 CivetOutputs. Please do not copy large sections of these datasets; if you need help extracting information out of them, contact us, we will prepare subsets for you. Files: 164769, Tasks: 78870, Users: 68. A 'PRIVATE' label is present.
- bcaron** (admin): Files: 103, Tasks: 130, Users: 1. A 'PRIVATE' label is present.
- bcaron Test Project** (bcaron): My test project. Files: 0, Tasks: 0, Users: 1. An edit icon is visible.

A red box highlights the '+ ADD PROJECT' button at the top left of the project list area. The top navigation bar includes links for Dashboard, Projects (highlighted), Storage, Messages (with 11 notifications), My Account, Documentation, and Logout. A search bar and pagination controls (show 20 of 60) are also visible.

# Setup (Exercise 1)

The screenshot shows the 'Add Project' page of the NeuroHub interface. At the top, there is a header with the NeuroHub logo, user information (Bryan Caron, bcaron), and navigation links for Dashboard, Projects, Storage, Messages (with a red notification badge showing 10), My Account, Documentation, and Logout. Below the header, the breadcrumb navigation shows 'Projects > Add Project'. A search bar is also present. The main form has the title 'Add Project'. It contains a 'NAME' field with the value 'Caron - BigBrain Research'. A 'DESCRIPTION' field contains the text 'My first BigBrain project|'. There are two checkboxes: 'PUBLIC' (unchecked) and 'NOT ASSIGNABLE' (unchecked). Below the checkboxes, there are small notes: 'Note: A public project makes all its files visible to all NeuroHub users. Be careful with this option!' and 'Note: If checked, normal members will not be able to assign files or other resources to this project (but editors are always allowed to do so.)'. At the bottom of the form is a teal-colored 'CREATE' button, which is highlighted with a red rectangular border.

# Setup (Exercise 1)

The screenshot shows the BigBrain Project Management interface. At the top, there is a navigation bar with links for Dashboard, Projects, Storage, Messages (with a red notification badge showing 10), My Account, Documentation, and Logout. The Dashboard link is highlighted with a red box. Below the navigation bar, a green banner displays the message: "Project Caron - BigBrain Research was successfully created". The main content area shows a summary of the project "Caron - BigBrain Research" with the following details:

- INVITE OTHER USERS**: A button to invite other users.
- UPLOAD FILE**: A button to upload files.
- EDIT**: A button to edit the project details.
- + ADD LICENSE**: A button to add a license.
- + ADD STORAGE**: A button to add storage.
- DELETE**: A button to delete the project.

Below these buttons, there are four sections with icons and counts:

- FILES**: 0
- TASKS**: 0
- MEMBER | EDITORS**: 1
- PENDING INVITES**: 0

The project details are listed below:

- NAME**: Caron - BigBrain Research
- MANTAINER**: bcaron
- TYPE**: My Work Project
- DESCRIPTION**: My first BigBrain project
- MEMBERS**:

MEMBERS	ACCESS
bcaron	MAINTAINER

# Setup (Exercise 1)

The screenshot shows the NeuroHub dashboard with a red box highlighting a specific message.

**Welcome bcaron**

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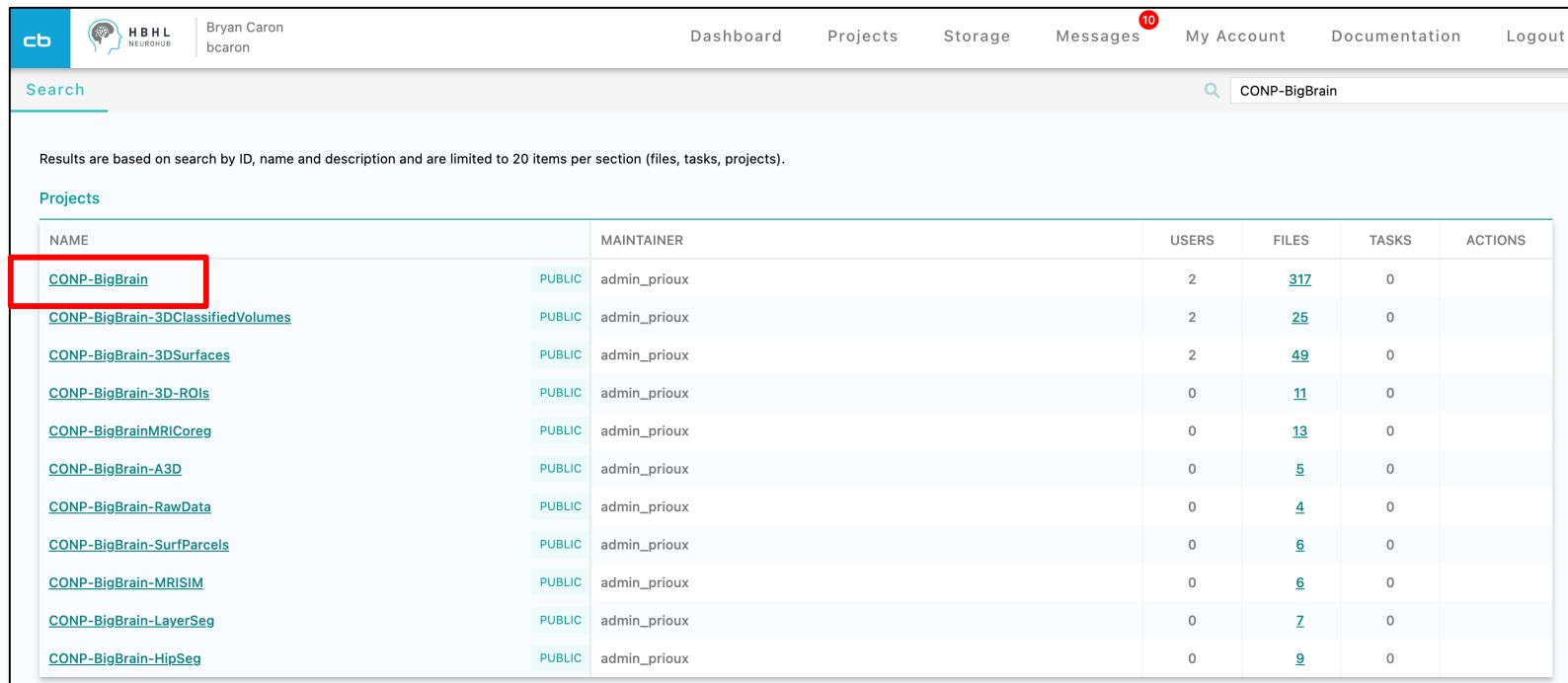
**Latest Tasks**

Task	User	Status	File	Date
BigBrainWar...	bcaron	Completed	Caron - BigBrain Resea...	2022-10-20 17:17:11 EDT
BigBrainWar...	bcaron	Completed	Caron - BigBrain Resea...	2022-10-20 17:17:11 EDT
BigBrainWar...	bcaron	Completed	Caron - BigBrain Resea...	2022-10-20 17:17:09 EDT
BigBrainWar...	bcaron	Completed	Caron - BigBrain Resea...	2022-10-20 17:17:09 EDT
BigBrainWar...	bcaron	Completed	Caron - BigBrain Resea...	2022-10-20 17:17:07 EDT

**Latest Updated Files**

File	User	Size	File	Date
bigbrainwar...	bcaron	345.9 MB	Caron - BigBrain Resea...	2022-10-20 17:17:11 EDT
bigbrainwar...	bcaron	30.4 MB	Caron - BigBrain Resea...	2022-10-20 17:17:10 EDT
bigbrainwar...	bcaron	52.3 MB	Caron - BigBrain Resea...	2022-10-20 17:17:09 EDT
Screenshot	bcaron	187.2 MB	Caron - BigBrain Resea...	2022-10-20 17:17:09 EDT

# Setup (Exercise 1)



Results are based on search by ID, name and description and are limited to 20 items per section (files, tasks, projects).

Projects

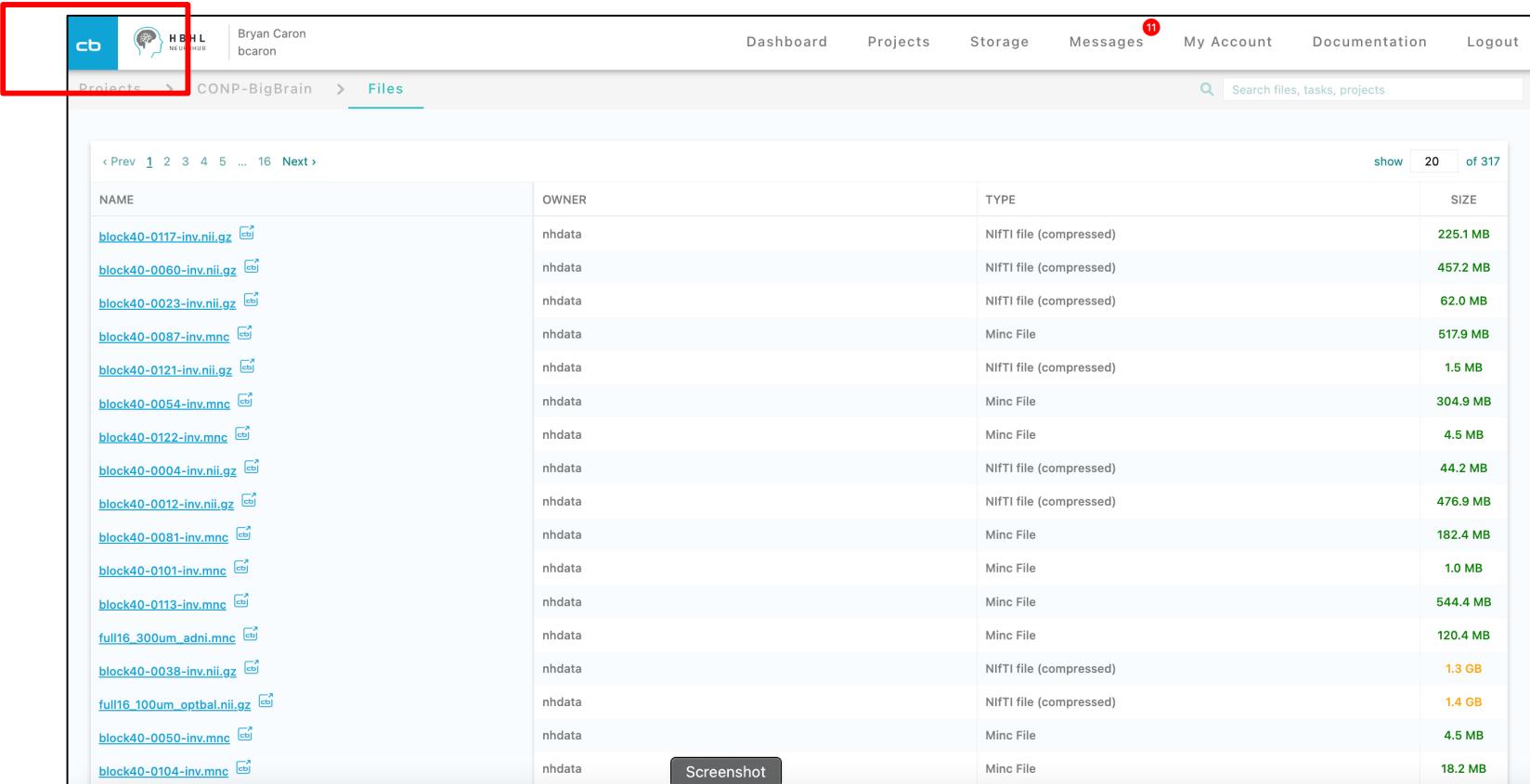
NAME	MAINTAINER	USERS	FILES	TASKS	ACTIONS
<a href="#">CONP-BigBrain</a>	admin_prioux	2	<a href="#">317</a>	0	
<a href="#">CONP-BigBrain-3DClassifiedVolumes</a>	admin_prioux	2	<a href="#">25</a>	0	
<a href="#">CONP-BigBrain-3DSurfaces</a>	admin_prioux	2	<a href="#">49</a>	0	
<a href="#">CONP-BigBrain-3D-ROIs</a>	admin_prioux	0	<a href="#">11</a>	0	
<a href="#">CONP-BigBrainMRICoreg</a>	admin_prioux	0	<a href="#">13</a>	0	
<a href="#">CONP-BigBrain-A3D</a>	admin_prioux	0	<a href="#">5</a>	0	
<a href="#">CONP-BigBrain-RawData</a>	admin_prioux	0	<a href="#">4</a>	0	
<a href="#">CONP-BigBrain-SurfParcels</a>	admin_prioux	0	<a href="#">6</a>	0	
<a href="#">CONP-BigBrain-MRISIM</a>	admin_prioux	0	<a href="#">6</a>	0	
<a href="#">CONP-BigBrain-LayerSeg</a>	admin_prioux	0	<a href="#">7</a>	0	
<a href="#">CONP-BigBrain-HipSeg</a>	admin_prioux	0	<a href="#">9</a>	0	

# Setup (Exercise 1)

The screenshot shows the CONP-BigBrain project dashboard. At the top, there is a navigation bar with links for Dashboard, Projects, Storage, Messages (with a red notification badge of 10), My Account, Documentation, and Logout. Below the navigation bar, the project name "CONP-BigBrain" is displayed. A search bar is also present. The main content area shows project statistics: 317 FILES (highlighted with a red box), 0 TASKS, 2 MEMBERS | EDITORS: 1, and 0 PENDING INVITES. Below these statistics, detailed project information is listed: NAME (CONP-BigBrain), MAINTAINER (admin\_prioux), TYPE (Public Project), and DESCRIPTION (Access to files in the BigBrain datasets obtained from CONP. Public.). A members table is shown, listing admin\_prioux and nhdata under the MEMBERS column and MAINTAINER under the ACCESS column.

MEMBERS	ACCESS
admin_prioux	MAINTAINER
nhdata	

# Setup (Exercise 1)



The screenshot shows a user interface for managing files in a project. A red box highlights the top-left corner of the interface, which includes the BigBrain logo and the user's name, Bryan Caron.

The interface has a navigation bar with links for Dashboard, Projects, Storage, Messages (with 11 notifications), My Account, Documentation, and Logout. Below the navigation bar, the path is shown as Projects > CONP-BigBrain > Files.

A search bar at the top right contains the placeholder "Search files, tasks, projects".

The main area displays a table of files with the following columns: NAME, OWNER, TYPE, and SIZE. The table shows 20 items out of 317 total. The files listed are:

NAME	OWNER	TYPE	SIZE
<a href="#">block40-0117-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	225.1 MB
<a href="#">block40-0060-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	457.2 MB
<a href="#">block40-0023-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	62.0 MB
<a href="#">block40-0087-inv.mnc</a>	nhdata	Minc File	517.9 MB
<a href="#">block40-0121-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	1.5 MB
<a href="#">block40-0054-inv.mnc</a>	nhdata	Minc File	304.9 MB
<a href="#">block40-0122-inv.mnc</a>	nhdata	Minc File	4.5 MB
<a href="#">block40-0004-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	44.2 MB
<a href="#">block40-0012-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	476.9 MB
<a href="#">block40-0081-inv.mnc</a>	nhdata	Minc File	182.4 MB
<a href="#">block40-0101-inv.mnc</a>	nhdata	Minc File	1.0 MB
<a href="#">block40-0113-inv.mnc</a>	nhdata	Minc File	544.4 MB
<a href="#">full16_300um_adni.mnc</a>	nhdata	Minc File	120.4 MB
<a href="#">block40-0038-inv.nii.gz</a>	nhdata	NIfTI file (compressed)	1.3 GB
<a href="#">full16_100um_optbal.nii.gz</a>	nhdata	NIfTI file (compressed)	1.4 GB
<a href="#">block40-0050-inv.mnc</a>	nhdata	Minc File	4.5 MB
<a href="#">block40-0104-inv.mnc</a>	nhdata	Minc File	18.2 MB

A "Screenshot" button is located at the bottom center of the table.

# Setup (Exercise 1)

NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 1m ago) Logged in as Bryan Caron Sign out

## cbrain - CONP-BigBrain - Files

Files Tasks

0 files currently selected (select all, clear)

( 317 entries , 112.5 GB )

← Previous 1 2 3 4 5 6 7 8 9 ... 12 13 Next →

Search by name:  More... 25 per page.

<input type="checkbox"/>	Filename	File Type	Owner	Creation Date	Size	Tags	Project Access	Provider	Description	+
<input type="checkbox"/>	block40-0117-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	225.1 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0060-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	457.2 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0023-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	62.0 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0087-inv.mnc	Minc File	nhdata	2021-01-26	517.9 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0121-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	1.5 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0054-inv.mnc	Minc File	nhdata	2021-01-26	304.9 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0122-inv.mnc	Minc File	nhdata	2021-01-26	4.5 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0004-inv.nii.gz ✓	NIFTI file (compressed)	nhdata	2021-01-26	44.2 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0012-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	476.9 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0081-inv.mnc	Minc File	nhdata	2021-01-26	182.4 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0101-inv.mnc	Minc File	nhdata	2021-01-26	1.0 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0113-inv.mnc	Minc File	nhdata	2021-01-26	544.4 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	full16_300um_adni.mnc	Minc File	nhdata	2021-01-26	120.4 MB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0038-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	1.3 GB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	full16_100um_optbal.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	1.4 GB		Read Only	CONP-BigBrain		...
<input type="checkbox"/>	block40-0050-inv.mnc	Minc File	nhdata	2021-01-26	4.5 MB		Read Only	CONP-BigBrain		...

# Setup (Exercise 1)

NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 1m ago) Logged in as Bryan Caron Sign out

## cbrain - CONP-BigBrain - Files

Files Tasks

▶ Launch ↑ Upload More... Search for anything

0 files currently selected (select all, clear)

( 317 entries , 112.5 GB )

Search by name:  25 per page.

← Previous 1 2 3 4 5 6 7 8 9 ... 12 13 Next →

Filename	File Type	Owner	Creation Date	Size	Tags	Project Access	Provider	Description	...
block40-0117-inv.nii.gz	Image File (of 1)	nhdata	2021-01-26	225.1 MB		Read Only	CONP-BigBrain		...
block40-0060-inv.nii.gz	Json File (of 1)	nhdata	2021-01-26	457.2 MB		Read Only	CONP-BigBrain		...
block40-0023-inv.nii.gz	Minc File (of 156)	nhdata	2021-01-26	62.0 MB		Read Only	CONP-BigBrain		...
block40-0087-inv.mnc	NIFTI file (of 154)	nhdata	2021-01-26	517.9 MB		Read Only	CONP-BigBrain		...
block40-0121-inv.nii.gz	Single File (of 5)	nhdata	2021-01-26	1.5 MB		Read Only	CONP-BigBrain		...
block40-0054-inv.mnc	Minc File	nhdata	2021-01-26	304.9 MB		Read Only	CONP-BigBrain		...
block40-0122-inv.mnc	Minc File	nhdata	2021-01-26	4.5 MB		Read Only	CONP-BigBrain		...
block40-0004-inv.nii.gz ✓	NIFTI file (compressed)	nhdata	2021-01-26	44.2 MB		Read Only	CONP-BigBrain		...
block40-0012-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	476.9 MB		Read Only	CONP-BigBrain		...
block40-0081-inv.mnc	Minc File	nhdata	2021-01-26	182.4 MB		Read Only	CONP-BigBrain		...
block40-0101-inv.mnc	Minc File	nhdata	2021-01-26	1.0 MB		Read Only	CONP-BigBrain		...
block40-0113-inv.mnc	Minc File	nhdata	2021-01-26	544.4 MB		Read Only	CONP-BigBrain		...
full16_300um_adni.mnc	Minc File	nhdata	2021-01-26	120.4 MB		Read Only	CONP-BigBrain		...
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full16_100um_optbal.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	1.4 GB		Read Only	CONP-BigBrain		...
block40-0050-inv.mnc	Minc File	nhdata	2021-01-26	4.5 MB		Read Only	CONP-BigBrain		...

Filter - File Type  x

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block40-0117-inv.nii.gz	Image File (of 1)	nhdata	2021-01-26	225.1 MB		Read Only	CONP-BigBrain		...
block40-0060-inv.nii.gz	Json File (of 1)	nhdata	2021-01-26	457.2 MB		Read Only	CONP-BigBrain		...
block40-0023-inv.nii.gz	Minc File (of 156)	nhdata	2021-01-26	62.0 MB		Read Only	CONP-BigBrain		...
block40-0087-inv.mnc	NIFTI file (of 154)	nhdata	2021-01-26	517.9 MB		Read Only	CONP-BigBrain		...
block40-0121-inv.nii.gz	Single File (of 5)	nhdata	2021-01-26	1.5 MB		Read Only	CONP-BigBrain		...
block40-0054-inv.mnc	Minc File	nhdata	2021-01-26	304.9 MB		Read Only	CONP-BigBrain		...
block40-0122-inv.mnc	Minc File	nhdata	2021-01-26	4.5 MB		Read Only	CONP-BigBrain		...
block40-0004-inv.nii.gz ✓	NIFTI file (compressed)	nhdata	2021-01-26	44.2 MB		Read Only	CONP-BigBrain		...
block40-0012-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	476.9 MB		Read Only	CONP-BigBrain		...
block40-0081-inv.mnc	Minc File	nhdata	2021-01-26	182.4 MB		Read Only	CONP-BigBrain		...
block40-0101-inv.mnc	Minc File	nhdata	2021-01-26	1.0 MB		Read Only	CONP-BigBrain		...
block40-0113-inv.mnc	Minc File	nhdata	2021-01-26	544.4 MB		Read Only	CONP-BigBrain		...
full16_300um_adni.mnc	Minc File	nhdata	2021-01-26	120.4 MB		Read Only	CONP-BigBrain		...
block40-0038-inv.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	1.3 GB		Read Only	CONP-BigBrain		...
full16_100um_optbal.nii.gz	NIFTI file (compressed)	nhdata	2021-01-26	1.4 GB		Read Only	CONP-BigBrain		...
block40-0050-inv.mnc	Minc File	nhdata	2021-01-26	4.5 MB		Read Only	CONP-BigBrain		...

Filter - File Type  x

# Setup (Exercise 1)

NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 0m ago) Logged in as Bryan Caron Sign out

## cbrain - CONP-BigBrain - Files

Files Tasks

Launch Upload Download Copy Move Rename Compress Uncompress Delete More...

Active Filters (clear) Type: Minc File Name: like full8\_...

1 files currently selected (select all, clear)

( 13 entries , 3.4 GB )

Search by name:  25 per page.

Filename	File Type	Owner	Creation Date	Size	Tags	Project Access	Provider	Description	...
full8_100um_adni.mnc	Minc File	nhdata	2021-01-26	1.1 GB		Read Only	CONP-BigBrain		...
full8_200um_adni.mnc	Minc File	nhdata	2021-01-26	151.0 MB		Read Only	CONP-BigBrain		...
full8_400um_optbal.mnc	Minc File	nhdata	2021-01-26	10.3 MB		Read Only	CONP-BigBrain		...
full8_1000um_optbal.mnc	Minc File	nhdata	2021-01-26	751.8 kB		Read Only	CONP-BigBrain		...
full8_200um_optbal.mnc	Minc File	nhdata	2021-01-26	77.9 MB		Read Only	CONP-BigBrain		...
full8_200um_2009b_sym.mnc	Minc File	nhdata	2021-01-26	156.4 MB		Read Only	CONP-BigBrain		...
full8_100um_optbal.mnc	Minc File	nhdata	2021-01-26	603.9 MB		Read Only	CONP-BigBrain		...
full8_400um_adni.mnc	Minc File	nhdata	2021-01-26	20.9 MB		Read Only	CONP-BigBrain		...
full8_400um_2009b_sym.mnc	Minc File	nhdata	2021-01-26	21.5 MB		Read Only	CONP-BigBrain		...
full8_300um_optbal.mnc	Minc File	nhdata	2021-01-26	23.8 MB		Read Only	CONP-BigBrain		...
full8_300um_2009b_sym.mnc	Minc File	nhdata	2021-01-26	48.7 MB		Read Only	CONP-BigBrain		...
full8_100um_2009b_sym.mnc	Minc File	nhdata	2021-01-26	1.1 GB		Read Only	CONP-BigBrain		...
full8_300um_adni.mnc	Minc File	nhdata	2021-01-26	47.2 MB		Read Only	CONP-BigBrain		...

Synchronization symbols: ✓: InSync \*: ProvNewer .: CacheNewer ✘: Corrupted ↴: ToCache ↑: ToProvider

Powered by CBRAIN Credits

# Setup (Exercise 1)

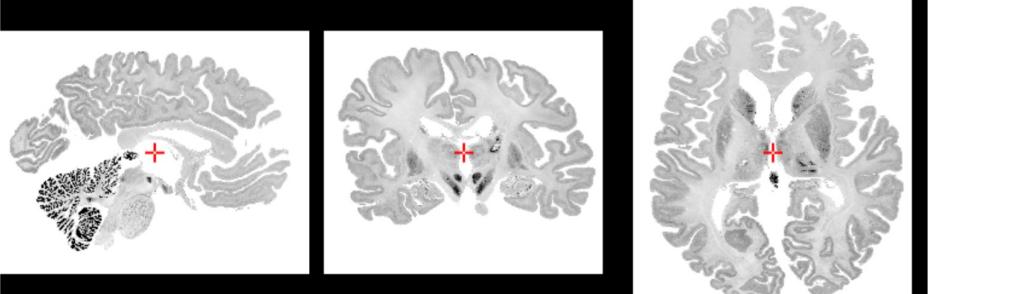
Info

Name:	full8_200um_optbal.mnc	Created at:	2021-01-26 15:51:53 EST (1 year, 8 months and 3 weeks ago)
Type:	Minc File	Modified at:	2021-01-26 15:52:08 EST (1 year, 8 months and 3 weeks ago)
Size:	77.9 MB = 77899827 bytes	Data Provider:	CONP-BigBrain ( FlatDirSmartDataProvider ) Cached: ✓✓
Owner:	nhdata	Project:	CONP-BigBrain
Tags:	Project permission on file: Read		
Hidden file:	<input type="checkbox"/> H	Immutable file:	<input type="checkbox"/> I
Zenodo Publication:	None.		
Description:			

Content

Change view: Volume Viewer

full8\_200um\_optbal.mnc



Voxel Coordinates:  
I: 385 J: 302 K: 348

World Coordinates:  
X: -1.06660 Y: 4.09000 Z: 1.62230

Value: 65535

Color Map: Gray

Threshold:

0 65535

All slices: Sagittal Coronal Transverse

# Launch BigBrainWarp (Exercise 2)

NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 0m ago) Logged in as Bryan Caron Sign out

cbrain CONP-BigBrain - Files

Files Tasks

▶ Launch Upload Download Copy Move Rename Compress Uncompress Delete More...

Active Filters (clear) Type: Minc File Name: like full8\_

1 files currently selected (select all, clear)

( 13 entries , 3.4 GB ) Search by name: 25 per page.

Filename	File Type	Owner	Creation Date	Size	Tags	Project Access	Provider	Description	...
full8_100um_adni.mnc	Minc File	nhdata	2021-01-26	1.1 GB		Read Only	CONP-BigBrain		...
full8_200um_adni.mnc	Minc File	nhdata	2021-01-26	151.0 MB		Read Only	CONP-BigBrain		...
full8_400um_optbal.mnc	Minc File	nhdata	2021-01-26	10.3 MB		Read Only	CONP-BigBrain		...
full8_1000um_optbal.mnc	Minc File	nhdata	2021-01-26	751.8 kB		Read Only	CONP-BigBrain		...
full8_200um_optbal.mnc	Minc File	nhdata	2021-01-26	77.9 MB		Read Only	CONP-BigBrain		...
full8_200um_2009b_sym.mnc	Minc File	nhdata	2021-01-26	156.4 MB		Read Only	CONP-BigBrain		...
full8_100um_optbal.mnc	Minc File	nhdata	2021-01-26	603.9 MB		Read Only	CONP-BigBrain		...
full8_400um_adni.mnc	Minc File	nhdata	2021-01-26	20.9 MB		Read Only	CONP-BigBrain		...
full8_400um_2009b_sym.mnc	Minc File	nhdata	2021-01-26	21.5 MB		Read Only	CONP-BigBrain		...
full8_300um_optbal.mnc	Minc File	nhdata	2021-01-26	23.8 MB		Read Only	CONP-BigBrain		...
full8_300um_2009b_sym.mnc	Minc File	nhdata	2021-01-26	48.7 MB		Read Only	CONP-BigBrain		...
full8_100um_2009b_sym.mnc	Minc File	nhdata	2021-01-26	1.1 GB		Read Only	CONP-BigBrain		...
full8_300um_adni.mnc	Minc File	nhdata	2021-01-26	47.2 MB		Read Only	CONP-BigBrain		...

Synchronization symbols: ✓: InSync \*: ProvNewer .: CacheNewer ✘: Corrupted ↴: ToCache ↑: ToProvider

Powered by CBRAIN Credits

# Launch BigBrainWarp (Exercise 2)

The screenshot shows the NeuroHub interface with the cbrain - All - Files page open. A search bar at the top contains the text "Search: bigbrain". A modal window titled "Select Tool" is displayed, containing a search input field with the same text. The results list shows "BigBrainWarp" with its details: Tags: neuroinformatics, Server & Version: August-2022, and a "Launch BigBrainWarp" button. This central area is highlighted with a red box. To the right, there's a sidebar with a "Select Access" dropdown set to "Only" and a "Provider" section listing "MainStore" three times. The main file list on the left shows two files: "prioux\_freesurfer\_license.txt" and "freesurfer\_license.txt", with the latter being selected.

# Launch BigBrainWarp (Exercise 2)

**Task Control:** (show/hide)

**Server & Version:** August-2022

**Save results to:** MainStore

**Owner:** bcaron (Bryan Caron)

**Project:** Caron - BigBrain Research

**Description:** (This first line should be a short summary, and the rest are your notes)

**Task Parameters (Help) :**

**Input space (--in\_space) (--in\_space) \***: icbm

**Output space (--out\_space) (--out\_space) \***: bigbrainsym

**Descriptor of input (--desc) \***: Bryan-BigBrainWarp-Test-20221024-200

**Freesurfer license \***: freesurfer\_license.txt

**Inputs** Requires either in\_vol, or in\_lh and in\_rh

**Input volume (--in\_vol) (--in\_vol)**: full8\_200um\_optbal.mnc

**Input left hemisphere (--in\_lh) (--in\_lh)**

**Input right hemisphere (--in\_rh) (--in\_rh)**

**Extra parameters**

**Extra arguments**

**Start BigBrainWarp**

# Monitor BigBrainWarp (Exercise 3)

The screenshot shows the cbrain interface for monitoring tasks. At the top, there's a navigation bar with links like NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, Support Forum, and a sign-in status. Below the header, a green banner says "Launching a BigBrainWarp task in background." Underneath, there are several filter buttons: Update Attributes, For Failed Tasks, For Completed Tasks, Terminating And Cleaning Up, Archiving, and Filters. A note indicates "Active Filters (clear) Type: BigBrainWarp". The main area displays a table of tasks with columns: Task Type, Version, Description, Owner, Project, Execution Server, Current Status, Run Number, Workdir Size, Time Submitted, and Last Updated. There are four entries for BigBrainWarp tasks, all completed. The last entry, which is highlighted with a red box, has a "New" status in the Current Status column. The total task space used is listed as 812.0 MB. At the bottom, there's a note about workdir archiving status symbols and links to Powered by CBrain and Credits.

Task Type	Version	Description	Owner	Project	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated
BigBrainWarp	August-2022	bcaron	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 11:44:01 EDT	2022-10-20 11:47:31 EDT	...
BigBrainWarp	August-2022	bcaron	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 11:48:15 EDT	2022-10-20 11:51:49 EDT	...
BigBrainWarp	August-2022	bcaron	Caron - BigBrain Research	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...
BigBrainWarp	August-2022	bcaron	Caron - BigBrain Research	Converter-2	New	1		2022-10-20 14:34:37 EDT	2022-10-20 14:34:37 EDT	...

# Monitor BigBrainWarp (Exercise 3)

NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 0m ago) Logged in as Bryan Caron Sign out

## cbrain - All - Tasks

Files Tasks

Update Attributes For Failed Tasks For Completed Tasks Terminating And Cleaning Up Archiving Filters

Active Filters (clear) Project: Caron - BigBrain Research Type: BigBrainWarp

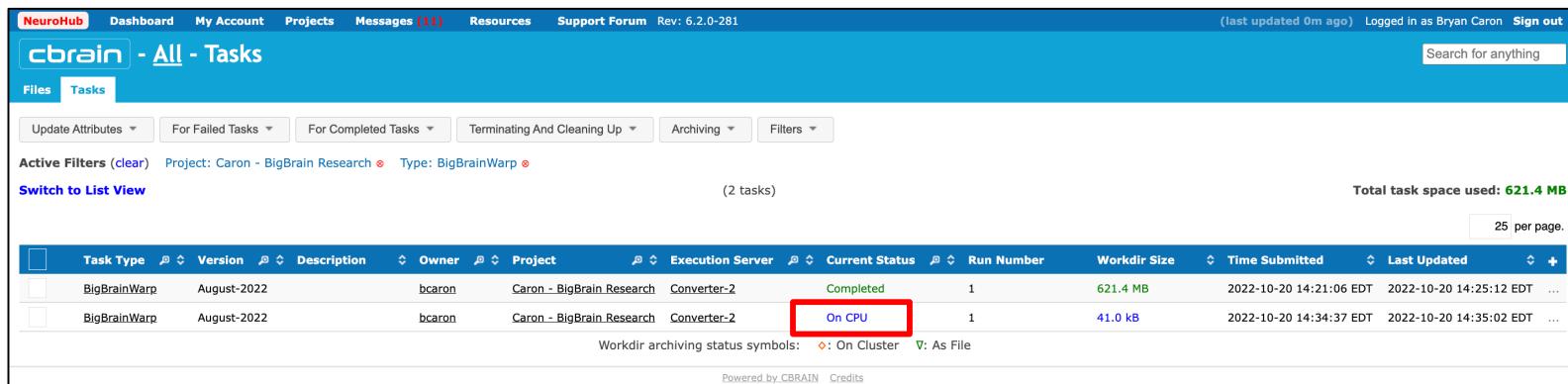
Switch to List View (2 tasks) Total task space used: 621.4 MB

25 per page.

Task Type	Version	Description	Owner	Project	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022	bcaron	Caron - BigBrain Research	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...	
BigBrainWarp	August-2022	bcaron	Caron - BigBrain Research	Converter-2	On CPU	1	41.0 kB	2022-10-20 14:34:37 EDT	2022-10-20 14:35:02 EDT	...	

Workdir archiving status symbols: : On Cluster V: As File

Powered by CBRAN Credits



NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 0m ago) Logged in as Bryan Caron Sign out

## cbrain - All - Tasks

Files Tasks

Task BigBrainWarp Completed Successfully. System 2022-10-20 14:38:10 EDT Mark as Read Delete

Update Attributes For Failed Tasks For Completed Tasks Terminating And Cleaning Up Archiving Filters

Active Filters (clear) Project: Caron - BigBrain Research Type: BigBrainWarp

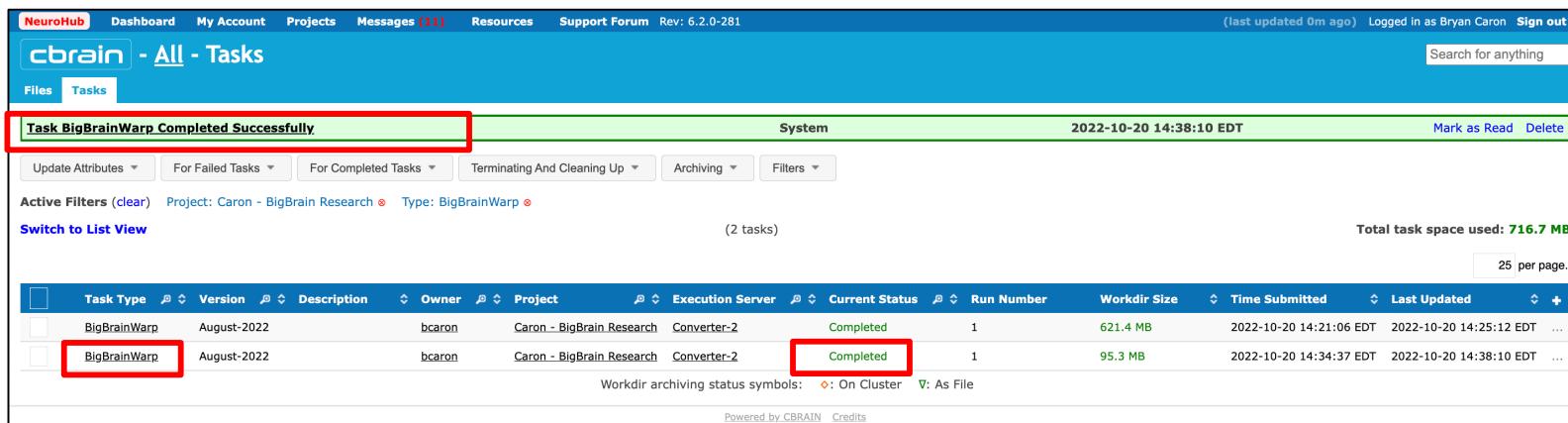
Switch to List View (2 tasks) Total task space used: 716.7 MB

25 per page.

Task Type	Version	Description	Owner	Project	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022	bcaron	Caron - BigBrain Research	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...	
BigBrainWarp	August-2022	bcaron	Caron - BigBrain Research	Converter-2	Completed	1	95.3 MB	2022-10-20 14:34:37 EDT	2022-10-20 14:38:10 EDT	...	

Workdir archiving status symbols: : On Cluster V: As File

Powered by CBRAN Credits



# Explore Output (Exercise 4)

Info			
<b>Task Name:</b>	BigBrainWarp	<b>Task Description:</b>	
<b>Execution Server:</b>	Converter-2	<b>Owner:</b>	bcaron
<b>Tool Version:</b>	August-2022	<b>Project:</b>	<a href="#">Caron - BigBrain Research</a>
<b>Current Status:</b>	Completed	<b>Time Submitted:</b>	2022-10-20 14:34:37 EDT
<b>Run number:</b>	1	<b>Last Updated:</b>	2022-10-20 14:38:10 EDT
<b>Data Provider For Results:</b>	<a href="#">MainStore</a>	<b>Zenodo Publication:</b>	None.
<b>Size of Work Directory:</b>	95.3 MB	<b>Archiving Status:</b>	(Not archived)

# Explore Output (Exercise 4)

**Info**

<b>Task Name:</b>	BigBrainWarp	<b>Task Description:</b>	
<b>Execution Server:</b>	Converter-2	<b>Owner:</b>	bcaron
<b>Tool Version:</b>	August-2022	<b>Project:</b>	Caron - BigBrain Research
<b>Current Status:</b>	Completed	<b>Time Submitted:</b>	2022-10-20 14:34:37 EDT
<b>Run number:</b>	1	<b>Last Updated:</b>	2022-10-20 14:38:10 EDT
<b>Data Provider For Results:</b>	MainStore	<b>Zenodo Publication:</b>	None.

**Size of Work Directory:** 95.3 MB      **Archiving Status:** (Not archived)

**Parameters**

**Summary** **Raw**

**Parameters**

```
Input space (--in_space)          icbm
Output space (--out_space)         bigbrainSym
Descriptor of input               Bryan-BigBrainWarp-Test-20221024-200
Interpolation method (--interp)   linear
Output type (--out_type)          volume
Output type (--out_type)          volume
```

**Input files**

```
Freesurfer license                freesurfer_license.txt
Input volume (--in_vol)            full8_200um_optbal.mnc
Input left hemisphere (--in_lh)    (None)
Input right hemisphere (--in_rh)   (None)
```

**Output files**

```
Output directory                  bigbrainwarp-results-2112746-1
```

**Processing Log**

```
[2022-10-20 14:34:37 EDT] BoutiquesTask::BigBrainWarp revision e4750b5f Natacha Beck 2022-10-20
[2022-10-20 14:34:36 EDT] new() cbrain_task.rb rev. ba92b49d
[2022-10-20 14:34:36 EDT] new() portal_task.rb rev. 05478d81
[2022-10-20 14:34:36 EDT] Cluster Job's Captured Output
[2022-10-20 14:34:36 EDT] Standard Out
[2022-10-20 14:34:36 EDT] Standard Error
[2022-10-20 14:34:36 EDT] CBRain Task Starting At 1666290891 : 2022-10-20 14:34:51
[2022-10-20 14:34:36 EDT] Input parameters:
[2022-10-20 14:34:36 EDT]   --in_space : icbm
[2022-10-20 14:34:36 EDT]   --out_space : bigbrainSym
[2022-10-20 14:34:36 EDT]   --bb_space : sym
[2022-10-20 14:34:36 EDT]   --wd : bigbrainwarp-results
[2022-10-20 14:34:36 EDT]   --desc : Bryan-BigBrainWarp-Test-20221024-200
[2022-10-20 14:34:36 EDT]   --in_vol : full8_200um_optbal.mnc
[2022-10-20 14:34:36 EDT]   --in_lh :
[2022-10-20 14:34:36 EDT]   --in_rb :
[2022-10-20 14:34:36 EDT]   --interp : trilinear
[2022-10-20 14:34:36 EDT]   --out_type : volume
[2022-10-20 14:34:36 EDT]   --out_den :
[2022-10-20 14:34:36 EDT]   --out_res : 1
[2022-10-20 14:34:36 EDT] minc image, continuing to transformation
[2022-10-20 14:34:36 EDT] Using s-form transform:
[2022-10-20 14:34:36 EDT]   1.0000, 0.0000, 0.0000, -97.7500,
[2022-10-20 14:34:36 EDT]   0.0000, 1.0000, 0.0000, -133.7500,
[2022-10-20 14:34:36 EDT]   0.0000, 0.0000, 1.0000, -71.7500,
[2022-10-20 14:34:36 EDT]   0.0000, 0.0000, 0.0000, 1.0000,
[2022-10-20 14:34:36 EDT]   xspace start: -97.7500 step: 1.0000 cosines: 1.0000 0.0000 0.0000 flip: 0
[2022-10-20 14:34:36 EDT]   yspace start: -133.7500 step: 1.0000 cosines: 0.0000 1.0000 0.0000 flip: 0
[2022-10-20 14:34:36 EDT]   zspace start: -71.7500 step: 1.0000 cosines: 0.0000 0.0000 1.0000 flip: 0
[2022-10-20 14:34:36 EDT] transform to BigBrainSym
[2022-10-20 14:34:36 EDT] employed nonlinear transformation from icbm to bigbrain
[2022-10-20 14:34:36 EDT] CBRain Task Ending With Status 0 After 195 seconds, at 1666291086 : 2022-10-20 14:38:06
[2022-10-20 14:34:36 EDT] CBRain Task CPU Times Start
[2022-10-20 14:34:36 EDT]   0m0.003s 0m0.003s
[2022-10-20 14:34:36 EDT]   1m20.520s 1m51.777s
[2022-10-20 14:34:36 EDT] CBRain Task CPU Times End
[2022-10-20 14:34:36 EDT] CBRain Task Exiting
```

# Explore Output (Exercise 4)

Info ([Edit](#))

<b>Name:</b>	bigbrainwarp-results-2112746-1	<b>Created at:</b>	2022-10-20 14:38:09 EDT (1 minute and 40 seconds ago)
<b>Type:</b>	File Collection	<b>Modified at:</b>	2022-10-20 14:38:10 EDT (1 minute and 39 seconds ago)
<b>Size:</b>	95.3 MB (3 files) = 95262415 bytes	<b>Data Provider:</b>	<a href="#">MainStore</a> ( EnCbrainSmartDataProvider ) Cached: ✓ ✓
<b>Owner:</b>	<a href="#">bcaron</a>	<b>Project:</b>	<a href="#">Caron - BigBrain Research</a>
<b>Tags:</b>	<b>Project permission on file:</b> Read		
<b>Hidden file:</b>	<input type="checkbox"/> <a href="#">H</a>	<b>Immutable file:</b>	<input type="checkbox"/> <a href="#">I</a>
<b>Zenodo Publication:</b>	None.		
<b>Parent:</b>	<a href="#">freesurfer_license.txt</a>		
<b>Description:</b>			

[prioux\\_freesurfer\\_license.txt >>](#)

Content

File	DL	Size
<a href="#">tmp_ref.mnc</a>	<a href="#">DL</a>	8.7 MB
<a href="#">tpl-bigbrain_desc-Bryan-BigBrainWarp-Test-20221024-200_sym.mnc</a>	<a href="#">DL</a>	8.7 MB
<a href="#">tpl-icbm_desc-Bryan-BigBrainWarp-Test-20221024-200.mnc</a>	<a href="#">DL</a>	77.9 MB

[Extract Files from Collection](#)

# Explore Output (Exercise 4)

Info (Edit)

**Name:** bigbrainwarp-results-2112746-1    **Created at:** 2022-10-20 14:38:09 EDT (1 minute and 40 seconds ago)  
**Type:** File Collection    **Modified at:** 2022-10-20 14:38:10 EDT (1 minute and 39 seconds ago)  
**Size:** 95.3 MB (3 files) = 95262415 bytes    **Data Provider:** MainStore ( EnCbrainSmartDataProvider ) Cached: ✓✓  
**Owner:** bcaron    **Project:** Caron - BigBrain Research  
**Tags:**  
**Hidden file:**  H    **Immutable file:**  I  
**Zenodo Publication:** None.  
**Parent:** [freesurfer\\_license.txt](#)  
**Description:**

[prioux\\_freesurfer\\_license.txt >>](#)

Content

	File	DL	Size
<input type="checkbox"/>	 tmp_ref.mnc	<input type="checkbox"/>	8.7 MB
<input type="checkbox"/>	 tpl-bigbrain_desc-Bryan-BigBrainWarp-Test-20221024-200_sym.mnc	<input type="checkbox"/>	8.7 MB
<input type="checkbox"/>	 tpl-icbm_desc-Bryan-BigBrainWarp-Test-20221024-200.mnc	<input type="checkbox"/>	77.9 MB

[Extract Files from Collection](#)

Extract Files from Collection

bigbrainwarp-results-2112746-1/tpl-bigbrain\_desc-Bryan-BigBrainWarp-Test-20221024-200\_sym.mnc



Voxel Coordinates:  
I: 94   J: 116   K: 98

World Coordinates:  
X: 0.250000   Y: -17.7500   Z: 22.2500

Value: 50115

Color Map: Gray

Threshold:

0      65535

All slices:  
Sagittal   Coronal   Transverse

# Launch BigBrainWarp (Optional Exercise 5)

The screenshot shows the NeuroHub dashboard with the cbrain - CONP-BigBrain - Files page selected. The top navigation bar includes links for NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, Support Forum, and Sign out. A search bar is located in the top right corner.

The main content area displays a table of files. The table has columns for Filename, File Type, Owner, Creation Date, Size, Tags, Project Access, Provider, Description, and a plus sign icon. The first column contains checkboxes. The second column lists file names starting with 'block40'. The third column indicates they are all Minc files. The fourth column shows the owner as 'nhdata'. The fifth column shows the creation date as 2021-01-26. The sixth column shows file sizes ranging from 161.1 MB to 830.3 kB. The seventh column shows 'Read Only' access. The eighth column shows the provider as 'CONP-BigBrain'. The ninth column shows the description as '...'. The tenth column has a plus sign icon.

At the top of the table, there is a red box highlighting the 'Active Filters' section which says 'Type: Minc File' and 'Name: like block40-000'. Below the table, there is a note about synchronization symbols and a link to Credits.

	Filename	File Type	Owner	Creation Date	Size	Tags	Project Access	Provider	Description	+
<input type="checkbox"/>	block40-0005-inv.mnc	Minc File	nhdata	2021-01-26	830.3 kB		Read Only	CONP-BigBrain	...	
<input type="checkbox"/>	block40-0007-inv.mnc	Minc File	nhdata	2021-01-26	161.1 MB		Read Only	CONP-BigBrain	...	
<input type="checkbox"/>	block40-0009-inv.mnc	Minc File	nhdata	2021-01-26	319.8 MB		Read Only	CONP-BigBrain	...	
<input type="checkbox"/>	block40-0004-inv.mnc	Minc File	nhdata	2021-01-26	26.2 MB		Read Only	CONP-BigBrain	...	
<input type="checkbox"/>	block40-0008-inv.mnc	Minc File	nhdata	2021-01-26	460.6 MB		Read Only	CONP-BigBrain	...	
<input type="checkbox"/>	block40-0002-inv.mnc	Minc File	nhdata	2021-01-26	4.4 MB		Read Only	CONP-BigBrain	...	
<input type="checkbox"/>	block40-0006-inv.mnc	Minc File	nhdata	2021-01-26	879.8 kB		Read Only	CONP-BigBrain	...	
<input type="checkbox"/>	block40-0003-inv.mnc	Minc File	nhdata	2021-01-26	45.1 MB		Read Only	CONP-BigBrain	...	
<input type="checkbox"/>	block40-0001-inv.mnc	Minc File	nhdata	2021-01-26	830.3 kB		Read Only	CONP-BigBrain	...	

Synchronization symbols: ✓: InSync   \*: ProvNewer   .: CacheNewer   ✘: Corrupted   ↴: ToCache   ↤: ToProvider

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# Launch BigBrainWarp (Optional Exercise 5)

The screenshot shows the cbrain - CONP-BigBrain - Files interface. The top navigation bar includes NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, Support Forum, and Rev: 6.2.0-281. The status bar indicates (last updated 0m ago), Logged in as Bryan Caron, and Sign out.

The main area displays a "Quick Project Switcher" sidebar with projects like bcaron Test Project, Caron - BigBrain Research, CBIGR, CBRAIN-Developers, DeformSim, fp-test, Global EEG Norms, HCP\_1200\_Squash, March 24 Test Project, My Test Project - BRain - RI-MUHC, NeuroHub-UK-Biobank, NH\_CBrain\_training\_data, NH\_CBrain\_training\_tasks, sergeHBCD, Test Project October 2022, and WorkshopJan2021. A red box highlights the "All (no specific project: see all files and tasks)" link at the bottom of the sidebar.

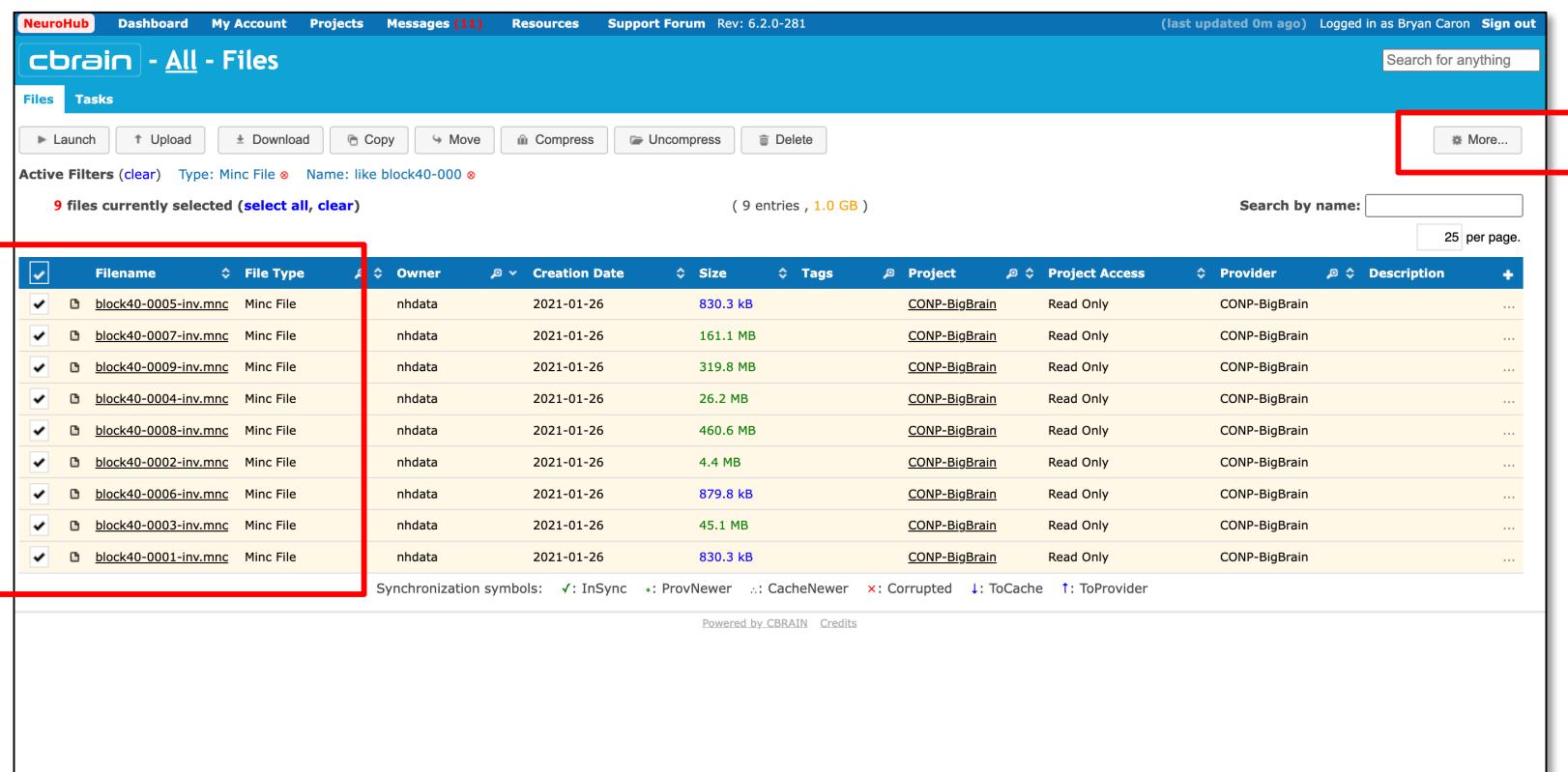
The main content area shows a table of 9 entries totaling 1.0 GB. The columns are Creation Date, Size, Tags, Project Access, Provider, and Description. The table includes rows for various files and tasks, such as "block40-000" and "WorkshopJan2021".

Creation Date	Size	Tags	Project Access	Provider	Description
2021-01-26	830.3 kB		Read Only	CONP-BigBrain	...
2021-01-26	161.1 MB		Read Only	CONP-BigBrain	...
2021-01-26	319.8 MB		Read Only	CONP-BigBrain	...
2021-01-26	26.2 MB		Read Only	CONP-BigBrain	...
2021-01-26	460.6 MB		Read Only	CONP-BigBrain	...
2021-01-26	4.4 MB		Read Only	CONP-BigBrain	...
2021-01-26	879.8 kB		Read Only	CONP-BigBrain	...
2021-01-26	45.1 MB		Read Only	CONP-BigBrain	...
2021-01-26	830.3 kB		Read Only	CONP-BigBrain	...

Legend: ✓: InSync   \*: ProvNewer   -: CacheNewer   ✘: Corrupted   ⚡: ToCache   ↑: ToProvider

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# Launch BigBrainWarp (Optional Exercise 5)



The screenshot shows the NeuroHub dashboard with the cbrain - All - Files page open. The page displays a list of 9 selected Minc files, each with its filename, type, owner, creation date, size, tags, project, project access, provider, and a more options button. The 'More...' button is highlighted with a red box. The entire list of files is also highlighted with a red box.

Filename	File Type	Owner	Creation Date	Size	Tags	Project	Project Access	Provider
block40-0005-inv.mnc	Minc File	nhdata	2021-01-26	830.3 kB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0007-inv.mnc	Minc File	nhdata	2021-01-26	161.1 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0009-inv.mnc	Minc File	nhdata	2021-01-26	319.8 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0004-inv.mnc	Minc File	nhdata	2021-01-26	26.2 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0008-inv.mnc	Minc File	nhdata	2021-01-26	460.6 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0002-inv.mnc	Minc File	nhdata	2021-01-26	4.4 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0006-inv.mnc	Minc File	nhdata	2021-01-26	879.8 kB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0003-inv.mnc	Minc File	nhdata	2021-01-26	45.1 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0001-inv.mnc	Minc File	nhdata	2021-01-26	830.3 kB		CONP-BigBrain	Read Only	CONP-BigBrain

# Launch BigBrainWarp (Optional Exercise 5)

The screenshot shows the NeuroHub interface with the cbrain - All - Files page. The user is logged in as Bryan Caron. A context menu is open on the right, with the 'Create a file list' option highlighted.

**Active Filters:** Type: Minc File, Name: like block40-000

**Selected Files:** 9 files currently selected (select all, clear)

Filename	File Type	Owner	Creation Date	Size	Tags	Project	Project Access	Provider
block40-0005-inv.mnc	Minc File	nhdata	2021-01-26	830.3 kB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0007-inv.mnc	Minc File	nhdata	2021-01-26	161.1 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0009-inv.mnc	Minc File	nhdata	2021-01-26	319.8 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0004-inv.mnc	Minc File	nhdata	2021-01-26	26.2 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0008-inv.mnc	Minc File	nhdata	2021-01-26	460.6 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0002-inv.mnc	Minc File	nhdata	2021-01-26	4.4 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0006-inv.mnc	Minc File	nhdata	2021-01-26	879.8 kB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0003-inv.mnc	Minc File	nhdata	2021-01-26	45.1 MB		CONP-BigBrain	Read Only	CONP-BigBrain
block40-0001-inv.mnc	Minc File	nhdata	2021-01-26	830.3 kB		CONP-BigBrain	Read Only	CONP-BigBrain

Synchronization symbols: ✓: InSync •: ProvNewer ..: CacheNewer ✘: Corrupted ↴: ToCache ↑: ToProvider

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# Launch BigBrainWarp (Optional Exercise 5)

The screenshot shows the Cbrain - Caron - BigBrain Research - Files interface. At the top, there is a modal window titled "Content" with the sub-titile "CBRAIN File List". The modal contains instructions about the file list format and a table of 9 files. Below the modal is the main file list table.

**Modal Content:**

Change view: CBRAIN File List

This type of file contains a list of other CBRAIN files that can be used as input or output to tasks within CBRAIN. **The only information that the system cares about are the file IDs in the first column;** the other columns are normally repeats of the information already recorded within CBRAIN for each of these IDs. It is possible that the information will not match, if the file has been manually edited for instance.

The content of this list is stored as a standard CSV file in plain text. In the table below, the names of the files are repeated: the first one is the name as known within CBRAIN, and the second one is whatever name was in the CSV file (which can be missing or wrong).

(9 files in this list)

ID	Name	Size	Type	Data Provider	User	Project
3346260 : (None)	block40-0005-inv.mnc	830276	MincFile	CONP-BigBrain	nhdata	CONP-BigBrain
3346389 : (None)	block40-0007-inv.mnc	161143745	MincFile	CONP-BigBrain	nhdata	CONP-BigBrain
3346407 : (None)	block40-0009-inv.mnc	319827167	MincFile	CONP-BigBrain	nhdata	CONP-BigBrain
3346431 : (None)	block40-0004-inv.mnc	26235585	MincFile	CONP-BigBrain	nhdata	CONP-BigBrain
3346488 : (None)	block40-0008-inv.mnc	460580534	MincFile	CONP-BigBrain	nhdata	CONP-BigBrain
3346593 : (None)	block40-0002-inv.mnc	4389061	MincFile	CONP-BigBrain	nhdata	CONP-BigBrain
3346594 : (None)	block40-0006-inv.mnc	879806	MincFile	CONP-BigBrain	nhdata	CONP-BigBrain
3346605 : (None)	block40-0003-inv.mnc	45119876	MincFile	CONP-BigBrain	nhdata	CONP-BigBrain
3346783 : (None)	block40-0001-inv.mnc	830276	MincFile	CONP-BigBrain	nhdata	CONP-BigBrain

**Main File List:**

NeuroHub Dashboard My Account Projects Messages (12) Resources Support Forum Rev: 6.2.0-281 (last updated 1m ago) Logged in as Bryan Caron Sign out

Search for anything

Files Tasks

▶ Launch ↑ Upload ↓ Download Copy Move Compress Uncompress Delete More...

2 files currently selected (select all, clear) ( 3 entries , 95.3 MB ) Search by name: 25 per page.

Filename	File Type	Owner	Creation Date	Size	Tags	Project Access	Provider	Description	...
freesurfer_license.txt ✓	Text File	bcaron	2022-10-19	59 bytes		Read Only	MainStore		...
bigbrainwarp-results-2112746-1 ✓	File Collection	bcaron	2022-10-20	95.3 MB (3 files)		Read Only	MainStore		...
file_list.7052.1666300032.cbcsv ✓	CBRAIN List of files	bcaron	2022-10-20	824 bytes		Read Only	MainStore		...

Synchronization symbols: ✓: InSync ∙: ProvNewer ∙: CacheNewer ✘: Corrupted ↴: ToCache ↑: ToProvider

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# Launch BigBrainWarp (Optional Exercise 5)

The screenshot shows the cbrain interface with a search result for 'bigbra'. A red box highlights the 'Launch BigBrainWarp' button in the 'Tools' section of the dialog.

**NeuroHub** Dashboard My Account Projects Messages (12) Resources Support Forum Rev: 6.2.0-281 (last updated 0m ago) Logged in as Bryan Caron Sign out

**cbrain - Caron - BigBrain Research - Files**

Files Tasks

2 files currently selected (select all, clear)

Filename	File Type
freesurfer_license.txt	Text File
bigbrainwarp-results-2112746-1	File Collection
file_list.7052.1666300032.cbcsv	CBRAIN List of files

Synchronization

**Select Tool**

Search: bigbra

All tools

Type:

- Anatomical
- Imaging
- Conversion
- System
- DTI
- Genomics
- Functional
- EEG
- scientific
- extraction

Software Package:

- MNI
- FSL
- Experimental
- MincToolkit
- CBRAIN
- FreeSurfer
- QEEGt

Tags:

- minc
- maz

Tools:

**BigBrainWarp**  
Tags: neuroinformatics  
Server & Version:  
August-2022  
**Launch BigBrainWarp**  
Launch in New Tab (instant)  
(This happened 2 hours and 36 minutes ago) [more info](#)

Search by name:

25 per page.

Provider	Description	...
MainStore	...	...
MainStore	...	...
MainStore	...	...

# Launch BigBrainWarp (Optional Exercise 5)

**Task Control: (show/hide)**

Server & Version: August-2022

Owner: bcaron (Bryan Caron)

Save results to: MainStore (in progress)

Project: Caron - BigBrain Research

Description:

(This first line should be a short summary, and the rest are your notes)

**Preset Management: (show/hide)**

**Task Parameters (Help) :**

**Input space (--in\_space) (--in\_space) \***  
icbm  
Space of input data

**Output space (--out\_space) (--out\_space) \***  
bigbrainsym  
Space of output data

**Descriptor of input (--desc) \***  
Bryan-BigBrainWarp-Test-20221024-cbcs  
descriptor of input data, which will be used to name the output.

**Freesurfer license \***  
freesurfer\_license.txt  
To run FreeSurfer a license file must exist and be pointed to. The license can be acquired by filling out this form: <https://surfer.nmr.mgh.harvard.edu/registration.html>.

**Inputs**  
Requires either in\_vol, or in\_lh and in\_rh

**Input volume (--in\_vol) (--in\_vol)**  
 file\_list.7052.1666300032.cbcs  
Path to input data, whole brain volume. Permitted formats: mnc, nii or nii.gz

**Input left hemisphere (--in\_lh) (--in\_lh)**  
  
Path to input data, left hemisphere surface. Permitted formats: label.gii, annot, shape.gii, curv or txt

**Input right hemisphere (--in\_rh) (--in\_rh)**  
  
Path to input data, right hemisphere surface. Permitted formats: label.gii, annot, shape.gii, curv or txt

**Extra parameters**  
Extra arguments

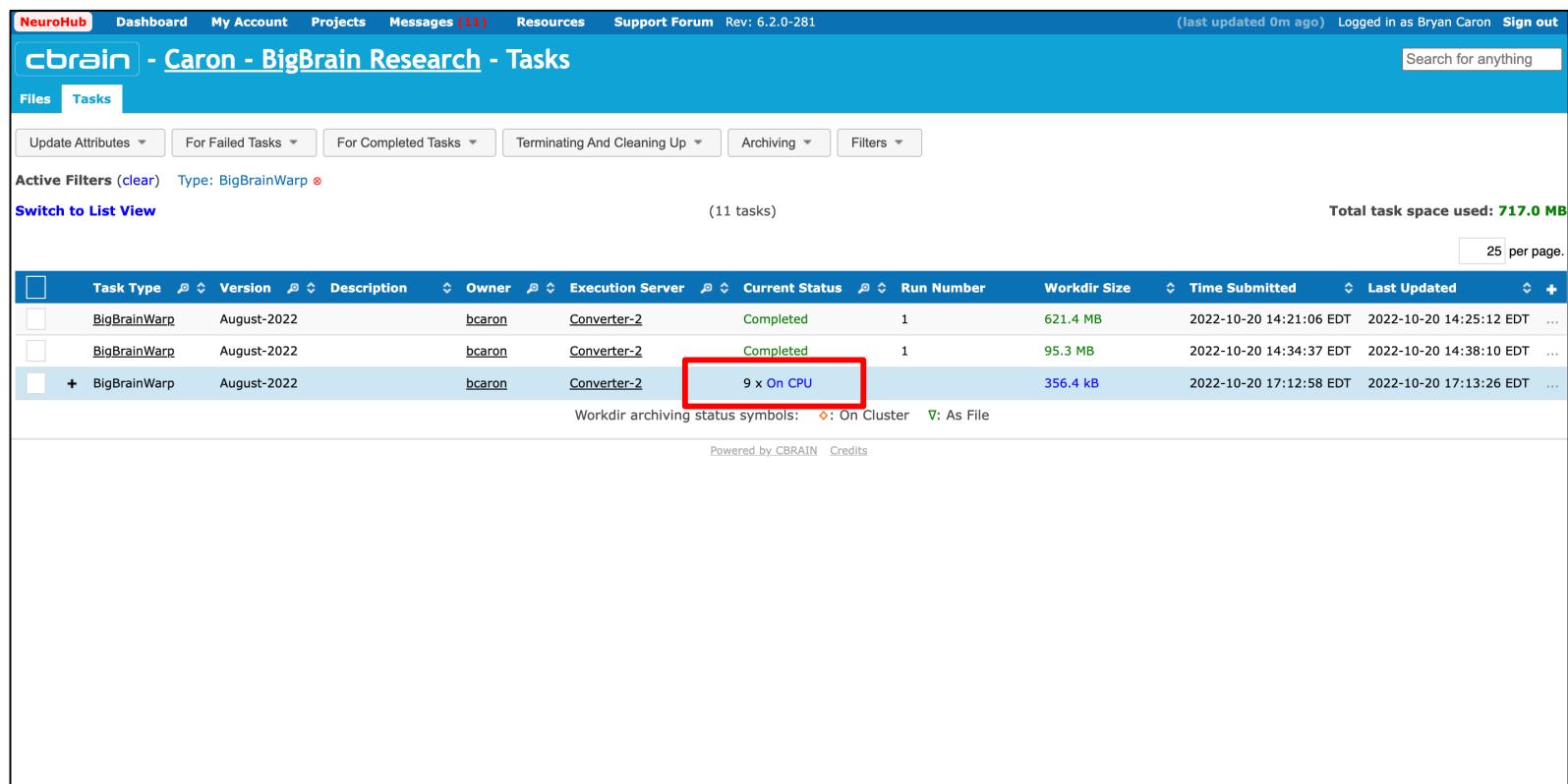
**Start BigBrainWarp**

# Monitor BigBrainWarp (Optional Exercise 5)

The screenshot shows the 'Tasks' tab of the cbrain interface. A red box highlights a green banner at the top stating 'Launching 9 BigBrainWarp tasks in background.' Below this, another red box highlights the '9 x New' status in the 'Current Status' column of the task list.

Task Type	Version	Description	Owner	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...	
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 14:34:37 EDT	2022-10-20 14:38:10 EDT	...	
+ BigBrainWarp	August-2022	bcaron	Converter-2	9 x New		0 bytes	2022-10-20 17:12:58 EDT	2022-10-20 17:12:58 EDT	...	

# Monitor BigBrainWarp (Optional Exercise 5)



The screenshot shows the NeuroHub interface for the 'cbrain - Caron - BigBrain Research' project. The 'Tasks' tab is selected. A red box highlights the status of the third task in the list, which is '9 x On CPU'. The table below shows the details of the tasks:

Task Type	Version	Description	Owner	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...	
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 14:34:37 EDT	2022-10-20 14:38:10 EDT	...	
+ BigBrainWarp	August-2022	bcaron	Converter-2	9 x On CPU		356.4 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:26 EDT	...	

# Monitor BigBrainWarp (Optional Exercise 5)

NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 0m ago) Logged in as Bryan Caron Sign out

## cbrain - Caron - BigBrain Research - Tasks

Files Tasks

Update Attributes For Failed Tasks For Completed Tasks Terminating And Cleaning Up Archiving Filters

Active Filters (clear) Type: BigBrainWarp

Switch to List View (11 tasks) Total task space used: 717.0 MB

25 per page.

Task Type	Version	Description	Owner	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...	
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 14:34:37 EDT	2022-10-20 14:38:10 EDT	...	
- BigBrainWarp	August-2022	bcaron	Converter-2	9 x On CPU	1	356.4 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:26 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	36.9 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:16 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	41.0 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:16 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	36.9 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:16 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	41.0 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:26 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	36.9 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:15 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	41.0 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:15 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	41.0 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:16 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	41.0 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:15 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	On CPU	1	41.0 kB	2022-10-20 17:12:58 EDT	2022-10-20 17:13:15 EDT	...	

Workdir archiving status symbols: ◊: On Cluster □: As File

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# Monitor BigBrainWarp (Optional Exercise 5)

NeuroHub Dashboard My Account Projects Messages (11) Resources Support Forum Rev: 6.2.0-281 (last updated 0m ago) Logged in as Bryan Caron Sign out

cbrain - Caron - BigBrain Research - Tasks

Files Tasks

Task BigBrainWarp Completed Successfully System 2022-10-20 17:17:11 EDT Mark as Read Delete

Update Attributes Filter Failed Tasks Filter Completed Tasks Terminating And Cleaning Up Archiving Filters

Active Filters (clear) Type: BigBrainWarp

Switch to List View (11 tasks) Total task space used: 2.0 GB

25 per page.

Task Type	Version	Description	Owner	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...	
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 14:34:37 EDT	2022-10-20 14:38:10 EDT	...	
+ BigBrainWarp	August-2022	bcaron	Converter-2	9 x Completed		1.3 GB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:11 EDT	...	

Workdir archiving status symbols: ◊: On Cluster ◊: As File

Powered by CBrain Credits

The screenshot shows the 'Tasks' section of the cbrain interface. At the top, there's a success message 'Task BigBrainWarp Completed Successfully' highlighted with a red box. Below it is a table of completed tasks. One specific row is highlighted with a red box and contains the text '9 x Completed' under the 'Current Status' column. The table includes columns for Task Type, Version, Description, Owner, Execution Server, Current Status, Run Number, Workdir Size, Time Submitted, Last Updated, and a more options column. The 'Completed' status is shown in green for all rows.

# Monitor BigBrainWarp (Optional Exercise 5)

The screenshot shows the CBRAIN interface for monitoring tasks. The top navigation bar includes NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, Support Forum, and Rev: 6.2.0-281. The status bar indicates (last updated 0m ago), Logged in as Bryan Caron, and Sign out.

The main title is "cbrain - Caron - BigBrain Research - Tasks". Below it, there are tabs for "Files" and "Tasks", with "Tasks" being the active tab and highlighted by a red box.

A message box at the top left says "Task BigBrainWarp Completed Successfully". To the right, it shows "System" and the date "2022-10-20 17:17:11 EDT". On the far right are "Mark as Read" and "Delete" buttons.

Below the message box are several filter options: Update Attributes, For Failed Tasks, For Completed Tasks, Terminating And Cleaning Up, Archiving, and Filters. It also shows Active Filters (clear) and Type: BigBrainWarp.

A link "Switch to List View" is present. The table below displays 11 tasks, with a total task space used of 2.0 GB. A dropdown menu shows 25 per page.

Task Type	Version	Description	Owner	Execution Server	Current Status	Run Number	Workdir Size	Time Submitted	Last Updated	...
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	621.4 MB	2022-10-20 14:21:06 EDT	2022-10-20 14:25:12 EDT	...	
BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	95.3 MB	2022-10-20 14:34:37 EDT	2022-10-20 14:38:10 EDT	...	
- BigBrainWarp	August-2022	bcaron	Converter-2	9 x Completed		1.3 GB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:11 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	26.9 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:02 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	187.2 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:09 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	345.9 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:11 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	52.3 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:09 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	486.7 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:07 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	30.5 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:11 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	27.0 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:04 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	71.2 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:03 EDT	...	
↳ BigBrainWarp	August-2022	bcaron	Converter-2	Completed	1	26.9 MB	2022-10-20 17:12:58 EDT	2022-10-20 17:17:03 EDT	...	

At the bottom, a note says "Workdir archiving status symbols: ◇: On Cluster □: As File".

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# Download the Results (Optional Exercise 6)

Browser view for navigating the project contents and individual file download

The screenshot shows a browser-based interface for managing project files. At the top, there's a navigation bar with links for NeuroHub, Dashboard, My Account, Projects, Messages (11), Resources, and Support Forum, along with a revision number Rev: 6.2.0-285. On the right side of the header, it says "(last updated 0m ago)" and "Logged in as Bryan Caron" with a "Sign out" button.

The main title is "cbrain - Caron - BigBrain Research - Files". Below the title, there are two tabs: "Files" (selected) and "Tasks". Under the "Files" tab, there are several action buttons: Launch, Upload, Download, Copy, Move, Compress, Uncompress, and Delete. There's also a "More..." button and a search bar labeled "Search for anything".

The central area displays a table of files. The table has columns for Filename, File Type, Owner, Creation Date, Size, Tags, Project Access, Provider, and Description. A checkbox column is on the far left. Several files are selected, indicated by checked checkboxes. The table shows the following data:

Filename	File Type	Owner	Creation Date	Size	Tags	Project Access	Provider	Description
freesurfer_license.txt ✓	Text File	bcaron	2022-10-19	59 bytes		Read Only	MainStore	...
bigbrainwarp-results-2112746-1 ✓	File Collection	bcaron	2022-10-20	95.3 MB (3 files)		Read Only	MainStore	...
file_list.7052.1666300032.cbcsv ✓	CBRAIN List of files	bcaron	2022-10-20	824 bytes		Read Only	MainStore	...
bigbrainwarp-results-2112752-1 ✓	File Collection	bcaron	2022-10-20	26.9 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112776-1 ✓	File Collection	bcaron	2022-10-20	26.9 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112773-1 ✓	File Collection	bcaron	2022-10-20	71.2 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112770-1	File Collection	bcaron	2022-10-20	26.9 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112764-1	File Collection	bcaron	2022-10-20	486.6 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112761-1 ✓	File Collection	bcaron	2022-10-20	52.3 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112755-1	File Collection	bcaron	2022-10-20	187.2 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112758-1	File Collection	bcaron	2022-10-20	345.9 MB (3 files)		Read Only	MainStore	...
bigbrainwarp-results-2112767-1	File Collection	bcaron	2022-10-20	30.4 MB (3 files)		Read Only	MainStore	...

At the bottom of the table, there's a note about synchronization symbols: ✓: InSync, +: ProvNewer, ..: CacheNewer, ✘: Corrupted, ↴: ToCache, ↑: ToProvider. The footer also includes links for "Powered by CBRAIN" and "Credits".

# Download the Results (Optional Exercise 6)

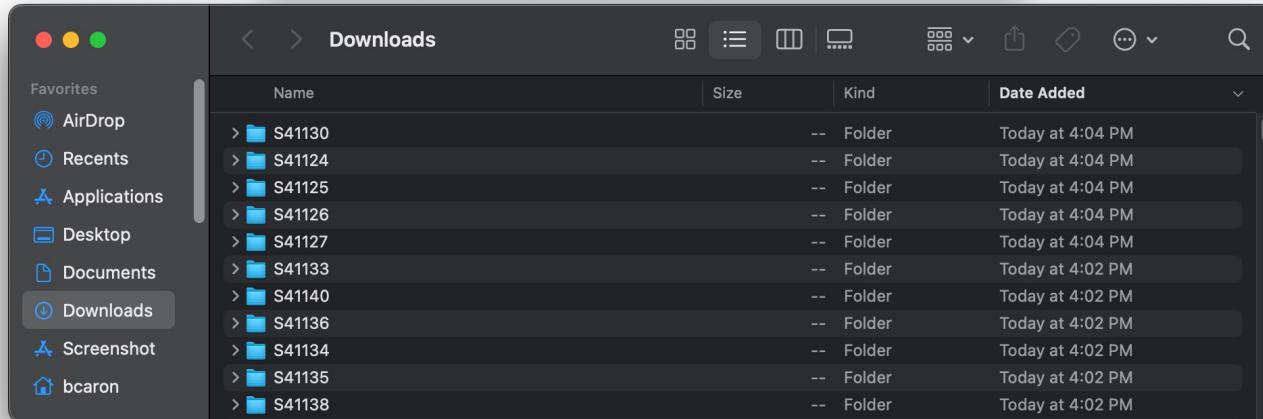
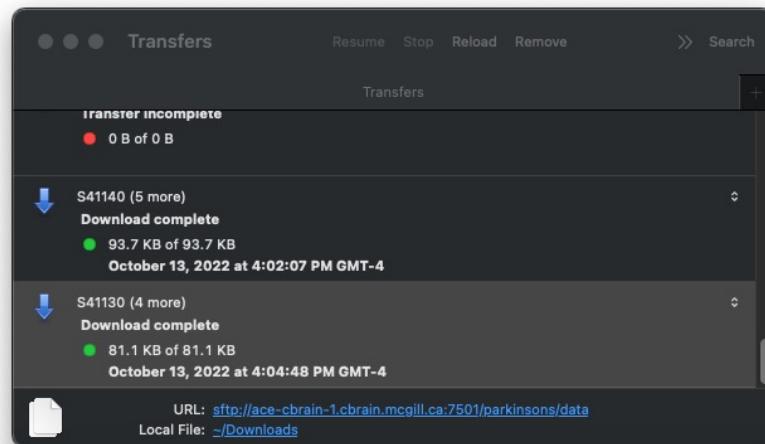
SFTP interface available to NeuroHub project data location for secure file browsing and file transfer (cmd-line, GUI clients)

The image displays four screenshots of the Cyberduck SFTP interface, a graphical user interface for managing files over an SFTP connection. The screenshots are arranged in a 2x2 grid.

- Top Left:** Shows the main interface with a sidebar of bookmarks. A red circle highlights the "Download" button in the toolbar.
- Top Right:** Shows a file listing for the "/parkinsons" directory. It includes files like README, MIP, and data, with details like size and modification date.
- Bottom Left:** Shows a detailed file listing for the "/parkinsons/data" directory, listing numerous files named S41140 through S41166, all modified on 2022-05-09 at 5:17 PM.
- Bottom Right:** Shows another detailed file listing for the same directory, showing a different set of files from S41140 to S41116, also modified on 2022-05-09 at 5:17 PM.

# Download the Results (Optional Exercise 6)

SFTP interface available to NeuroHub project data location for secure file browsing and file transfer (cmd-line, GUI clients)



Download destination server directory

# Download the Results (Optional Exercise 6)

Using your favourite SFTP client (command-line or GUI-based) configure a connection to the CBRAIN SFTP server using the following protocol parameters.

To connect to Data Provider SFTP-1	
SFTP Hostname	ace-cbrain-1.cbrain.mcgill.ca
SFTP Port number	7500
SFTP Username	(your CBRAIN username)
SFTP Password	(your CBRAIN password)
Connexion URI (for Linux desktops)	sftp://username@ace-cbrain-1.cbrain.mcgill.ca:7500/
To connect to Data Provider SFTP-2	
SFTP Hostname	ace-cbrain-2.cbrain.mcgill.ca
SFTP Port number	7500
SFTP Username	(your CBRAIN username)
SFTP Password	(your CBRAIN password)
Connexion URI (for Linux desktops)	sftp://username@ace-cbrain-2.cbrain.mcgill.ca:7500/

See: <https://portal.cbrain.mcgill.ca/doc/manual/uploading.html>

# Wrap-up

If you have any feedback or questions as follow-up to the material or  
as to how the methods demonstrated can be applied to your  
research: [support@neurohub.ca](mailto:support@neurohub.ca)

**Thank you for your attention!**