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Introduction

Our analyses use data from the HCP 1200 Subjects Release, as well as the accompanying parcellations.

Task and dataset descriptions are available at

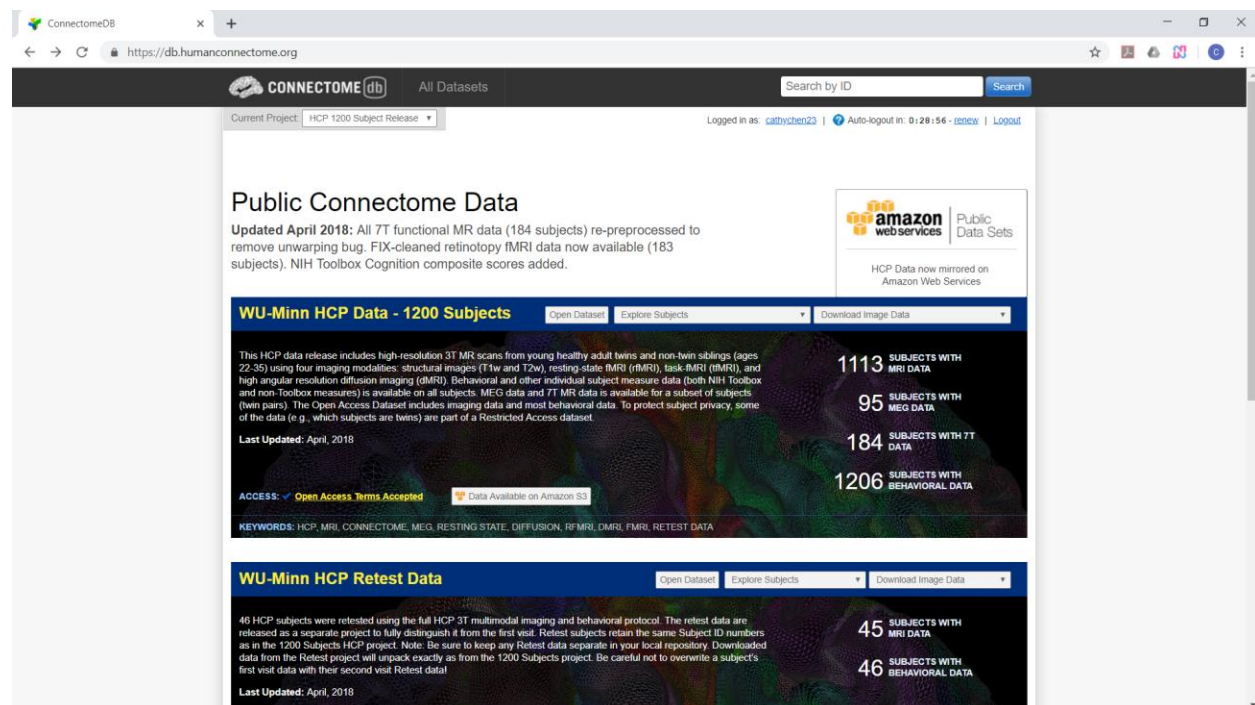
https://www.humanconnectome.org/storage/app/media/documentation/s1200/HCP_S1200_Release_Reference_Manual.pdf

Information about the group-average parcellations we used is available at:

<https://www.humanconnectome.org/storage/app/media/documentation/s1200/HCP1200-DenseConnectome+PTN+Appendix-July2017.pdf>

Data Download Instructions

The data is available from <https://db.humanconnectome.org/>



The screenshot shows the Human Connectome Project (HCP) database website. The main heading is "Public Connectome Data". Below this, it states: "Updated April 2018: All 7T functional MR data (184 subjects) re-preprocessed to remove unwarping bug. FIX-cleaned retinotopy fMRI data now available (183 subjects). NIH Toolbox Cognition composite scores added." To the right, there is a logo for "amazon web services" and a note: "HCP Data now mirrored on Amazon Web Services".

The main section is titled "WU-Minn HCP Data - 1200 Subjects". It includes a description: "This HCP data release includes high-resolution 3T MR scans from young healthy adult twins and non-twin siblings (ages 22-35) using four imaging modalities: structural images (T1w and T2w), resting-state fMRI (rsfMRI), task-fMRI (tfMRI), and high angular resolution diffusion imaging (dMRI). Behavioral and other individual subject measure data (both NIH Toolbox and non-Toolbox measures) is available on all subjects. MEG data and 7T MR data is available for a subset of subjects (twin pairs). The Open Access Dataset includes imaging data and most behavioral data. To protect subject privacy, some of the data (e.g., which subjects are twins) are part of a Restricted Access dataset." It also mentions "Last Updated: April, 2018".

Below the description, there is a table of subjects with various data types:

1113	SUBJECTS WITH MRI DATA
95	SUBJECTS WITH MEG DATA
184	SUBJECTS WITH 7T DATA
1206	SUBJECTS WITH BEHAVIORAL DATA

There is also a section for "WU-Minn HCP Retest Data". It states: "46 HCP subjects were retested using the full HCP 3T multimodal imaging and behavioral protocol. The retest data are released as a separate project to fully distinguish it from the first visit. Retest subjects retain the same Subject ID numbers as in the 1200 Subjects HCP project. Note: Be sure to keep any Retest data separate in your local repository. Downloaded data from the Retest project will unpack exactly as from the 1200 Subjects project. Be careful not to overwrite a subject's first visit data with their second visit Retest data!" It also mentions "Last Updated: April, 2018".

From this page, select "Subjects with 3T MR Session Data", and download the "Motor Task fMRI Preprocessed" dataset.

ConnectomeDB x +
https://db.humanconnectome.org

CONNECTOME db All Datasets Search by ID Search

Current Project: HCP 1200 Subject Release Logged in as: cathychen23 | Auto-logout in: 0:28:44 - [reset](#) | [Logout](#)

Public Connectome Data

Updated April 2018: All 7T functional MR data (184 subjects) re-preprocessed to remove unwarping bug. FIX-cleaned retinotopy fMRI data now available (183 subjects). NIH Toolbox Cognition composite scores added.

amazon web services Public Data Sets
HCP Data now mirrored on Amazon Web Services

WU-Minn HCP Data - 1200 Subjects

Open Dataset Explore Subjects Download Image Data

This HCP data release includes high-resolution 3T MR scans from young healthy adult twins and non-twin siblings (ages 22-35) using four imaging modalities: structural images (T1w and T2w), resting-state fMRI (rfMRI), task-fMRI (tfMRI), and high angular resolution diffusion imaging (dMRI). Behavioral and other individual subject measure data (both NIH Toolbox and non-Toolbox measures) is available on all subjects. MEG data and 7T MR data is available for a subset of subjects (twin pairs). The Open Access Dataset includes imaging data and most behavioral data. To protect subject privacy, some of the data (e.g., which subjects are twins) are part of a Restricted Access dataset.

Last Updated: April, 2018

ACCESS: [Open Access Terms Accepted](#) [Data Available on Amazon S3](#)

KEYWORDS: HCP, MRI, CONNECTOME, MEG, RESTING STATE, DIFFUSION, RFMRI, DMRI, FMRI, RETEST DATA

- Download Image Data
 - Download Image Data
 - All Family Subjects
 - MEG Subjects
 - Subjects with 7T MR Session Data**
 - Subjects with 7T MR Session Data
 - Behavior Data Only Subjects
 - Single Subject
 - 100 Unrelated Subjects
 - S1200 New Subjects
 - S900 New Subjects
 - 1003 Group Avg RSFC Subjects
 - 112 Group Avg RSFC Subjects, recon i227
 - S900 Release Subjects
 - S900 Release Subjects with 7T Data
 - S500 plus MEG2 Release Subjects
 - S500 Release Subjects
 - Test-Retest Subjects
 - Test-Retest Subjects with retest MR data

WU-Minn HCP Retest Data

Open Dataset Explore Subjects Download Image Data

46 HCP subjects were retested using the full HCP 3T multimodal imaging and behavioral protocol. The retest data are released as a separate project to fully distinguish it from the first visit. Retest subjects retain the same Subject ID numbers as in the 1200 Subjects HCP project. Note: Be sure to keep any Retest data separate in your local repository. Downloaded data from the Retest project will unpack exactly as from the 1200 Subjects project. Be careful not to overwrite a subject's first visit data with their second visit Retest data!

Last Updated: April, 2018

45 SUBJECTS WITH MRI DATA
46 SUBJECTS WITH BEHAVIORAL DATA

ConnectomeDB x +
https://db.humanconnectome.org/app/action/DownloadPackagesAction

keywords: MRI, full, preprocessed, task

Language Task fMRI Preprocessed

1,054 of 1,113 subjects OK — 77,358 files, 2217.26 GB

This package contains MSM-Sulc and MSM-Ali registered versions of fMRI data from the Language task preprocessed with the HCP functional pipeline, including fMRIVolume and fMRISurface pipeline outputs, motion parameters, LANGUAGE_run1_TAB.txt and LANGUAGE_run2_TAB.txt (EPRIME data files), EV.txt files and fsf files (for higher analysis in FSL). Also includes corrected physiological data, if available.

keywords: MRI, full, preprocessed, task

queue for download

Motor Task fMRI Preprocessed

1,086 of 1,113 subjects OK — 70,945 files, 2132.31 GB

This package contains MSM-Sulc and MSM-Ali registered versions of fMRI data from the Motor task preprocessed with the HCP functional pipeline, including fMRIVolume and fMRISurface pipeline outputs, motion parameters, MOTOR_run1_TAB.txt and MOTOR_run2_TAB.txt (EPRIME data files), EV.txt files and fsf files (for higher analysis in FSL). Also includes corrected physiological data, if available.

keywords: MRI, full, preprocessed, task

queue for download

Relational Task fMRI Preprocessed

1,045 of 1,113 subjects OK — 64,175 files, 1814.91 GB

This package contains MSM-Sulc and MSM-Ali registered versions of fMRI data from the Relational task preprocessed with the HCP functional pipeline, including fMRIVolume and fMRISurface pipeline outputs, motion parameters, RELATIONAL_run1_TAB.txt and RELATIONAL_run2_TAB.txt (EPRIME data files), EV.txt files and fsf files (for higher analysis in FSL). Also includes corrected physiological data, if available.

keywords: MRI, full, preprocessed, task

queue for download

Social Task fMRI Preprocessed

1,054 of 1,113 subjects OK — 66,834 files, 2023.57 GB

This package contains MSM-Sulc and MSM-Ali registered versions of fMRI data from the Social task preprocessed with the HCP functional pipeline, including fMRIVolume and fMRISurface pipeline outputs, motion parameters, SOCIAL_run1_TAB.txt and SOCIAL_run2_TAB.txt (EPRIME data files), EV.txt files and fsf files (for higher analysis in FSL). Also includes corrected physiological data, if available.

keywords: MRI, full, preprocessed, task

queue for download

javascript:

Parcellation Download Instructions

The data is available from https://db.humanconnectome.org/data/projects/HCP_1200

From this page, download the “1003 Subjects, recon r177 + r277, PTN Release”.

The screenshot shows the Human Connectome Project (HCP) data website. The browser address bar displays db.humanconnectome.org/data/projects/HCP_1200. The page has a navigation bar with tabs: Resources, Subject Keys, Consortium Pubs, and Update Log. The main content area is divided into two columns. The left column contains sections: Data Reference (with links to Known Data Issues and Planned Fixes, HCP Data Reference Manual, HCP Users FAQ, MEG Data FAQ, and HCP Data Dictionary), Quick Downloads (Behavioral Data, Expanded FreeSurfer Data, 3T MRI Session Summary CSVs (1113 subjects), 7T MRI Session Summary CSVs (184 subjects)), Pipeline Software (HCP MR Pipelines Software, MegConnectome Software), and Task Resources (3T E-Prime scripts (2.4GB), 7T Retinotopy Stimulus Files (68MB), 7T Movie Stimulus Files (11GB), 7T Movie Resource Files (92MB), MEG E-Prime scripts (2.6GB)). The right column contains sections: High-level fMRI Connectivity Analyses (Updated July 2017, for descriptions of all data downloads below, See Documentation), Group Average Functional Connectivity (Dense connectome files for all subjects with complete fMRI data (1003), or only subjects with improved fMRI image reconstruction version r227 (812). Group-PCA Eigenmaps can be used to create dense connectomes with scripts included in the PTN datasets. Dense connectomes can also be accessed directly in Connectome Workbench web view. See Documentation), HCP1200 Parcellation+Timeseries+Netmats (PTN) (Includes Group-ICA "parcellations" at 6 dimensionalities (levels of detail), individual subject node timeseries for each dimensionality, individual subject and group average full and partial correlation netmats (parcellated connectomes), and scripts for running these high-level connectivity analyses. See Documentation), and Subject-specific ICA parcellations (node maps) (Subject-specific versions of the group-ICA parcellations, with various ICA dimensionalities applied for 1003 subjects with complete fMRI data (recon r177 + r227)). Below these sections are download links for: 1003 Subjects_recon_r177 + r227_Dense Connectome (33GB), 812 Subjects_recon_r227_Dense Connectome (33GB), 1003 Subjects_recon_r177 + r227_Group-PCA Eigenmaps (2GB), 812 Subjects_recon_r227_Group-PCA Eigenmaps (2GB), 1003 Subjects_recon_r177 + r227_PTN Release (13GB), 812 Subjects_recon_r227_only_PTN Release (10GB), CIFTI Subject-specific Parcellations for 15- 25- 50- 100-dimentionalities (65GB), CIFTI Subject-specific Parcellations for 200-dimensionality (68GB), and CIFTI Subject-specific Parcellations for 300-dimensionality (102GB). The footer of the page shows the URL: https://db.humanconnectome.org/app/action/ChooseDownloadResources?project=HCP_Resource&resource=GroupAvg&filePath=HCP1200_Parcellation_Timeseries_Netmats.zip.