

# DAPA CLIMATE DATABASE

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*Brief description about the CIAT-DAPA climate database*

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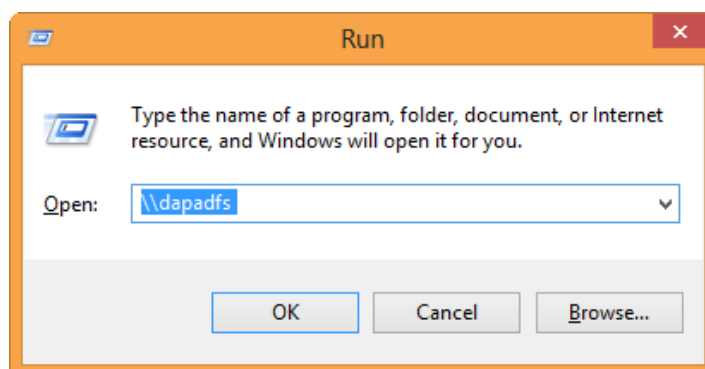
*September 2013*

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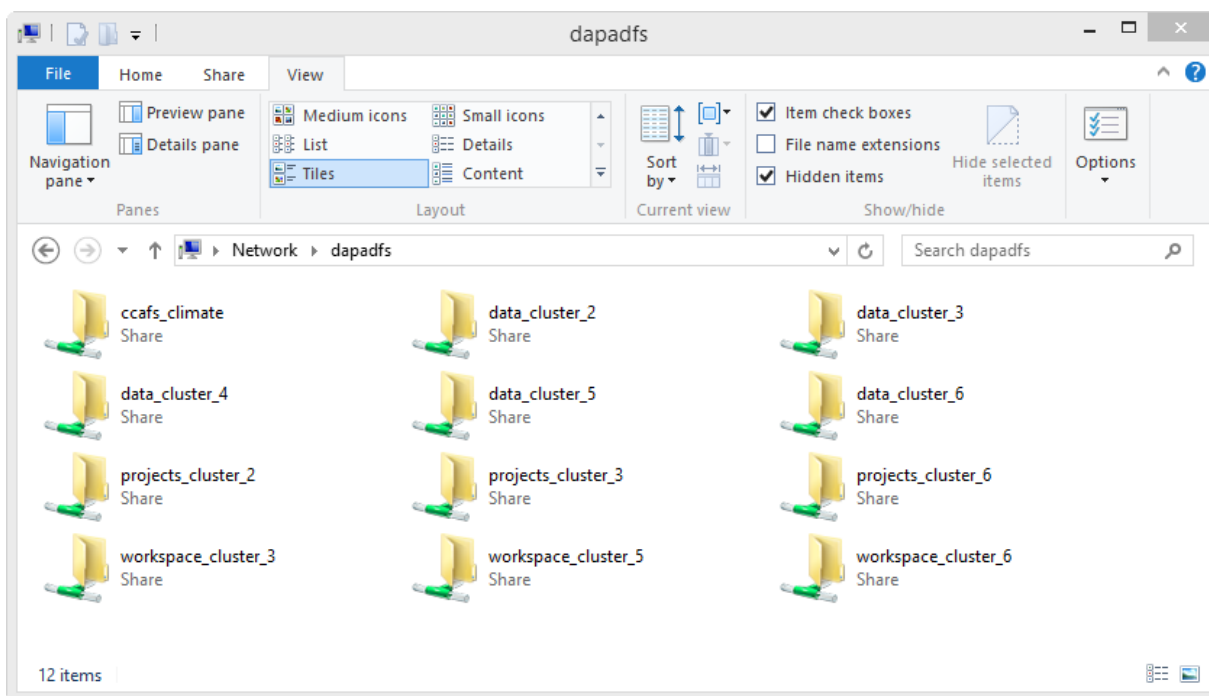
## 1) ACCESS TO DAPADFS (DAPA - DISTRIBUTED FILE SYSTEM)

- 1) Make sure that you are inside of IS environment.
- 2) Go to Start, then "Run..." (or in keyboard  + R). Write <\\dapadfs>



If it doesn't work try with <\\dapadfs.ciat.cgiarad.org>

- 3) You will find the main shares directories of DAPA cluster storage.

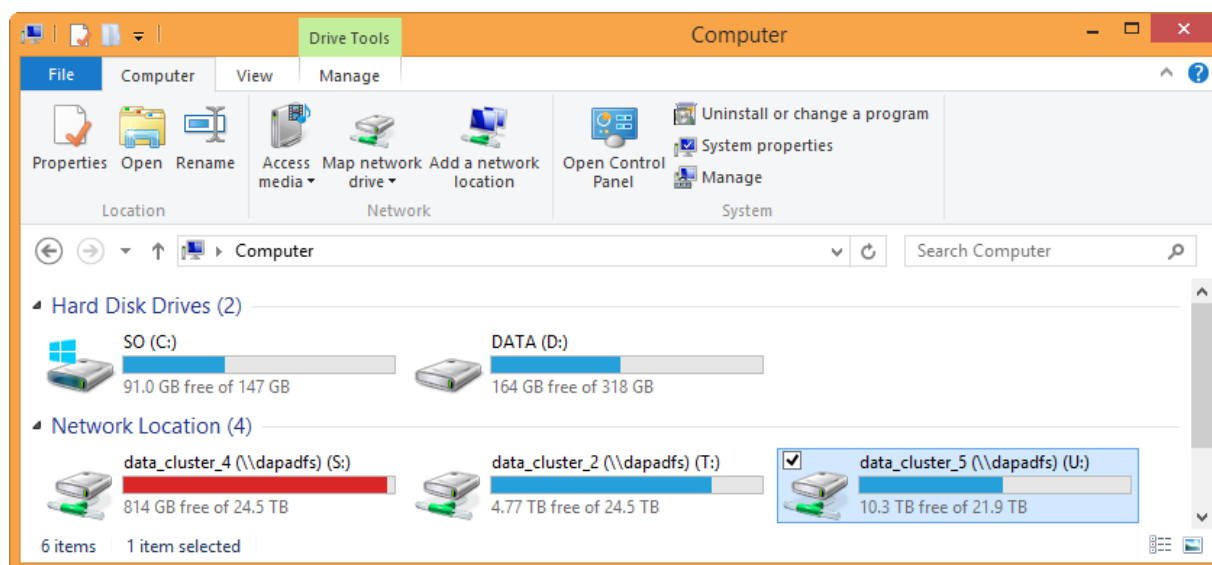


Each partition (e.g. "cluster\_3") has ~25TB of storage.

Three kind of folder compose the each cluster partition:

- Data: Mainly houses climate data, maps, rasters and tables.
- Projects: Information about finished projects used in the CIAT institutional memory.
- Workspace: Processing and temporal storage of unfinished or unorganized projects.

4) If you want to add a share directory as a network drive, right-click on the directory and choose "Map Network drive", assign a letter unit and you will see the directory in your network locations.



## 2) CLIMATE DATA DIRECTORIES

The DAPA Climate Database contains historical and future data mainly in ESRI-Ascii, ESRI-Grid and text plain format.

The following table summarizes the climate information available in DAPADFS (last actualization September 2013). See this on the following link (frequently update):

<https://docs.google.com/spreadsheet/cc?key=0AoTsjp1q3QCdE52dEx4c29NTmU3LUVId0p6YWFBcGc&pli=1#gid=0>

Directory	1st level	2nd level	3er level	Description	Availability
\data_cluster2	\gcm	\cmip5	\baseinfo	Necessary info for downscaling method process	Available
			\interpolations	Interpolated AR5 anomalies at 1km of resolution	Available
			\raw	Original GCM data (average and filled info)	Available
	\rcm	\mri	\_describes	Statistics of MRI grids	Restricted
			\_scripts	Tools for MRI processing	Restricted
			\mri_grids	Present and future climatological MRI data in ESRI grid format	Restricted
			\MRI_inputs	Present and future climatological MRI data in dtr format	Restricted
			\MRI_outputs	Present and future climatological MRI data in NetCDF format	Restricted
			\MRI_Validation	Validation data files of MRI over South America	Restricted
			\MRIAAIgrid	Present and future climatological MRI data in Esri-Ascii format	Restricted
	\rcm	\cordex	\AFR-44	CORDEX Africa raw files	Restricted
			\ANT-44	CORDEX Antarctica raw files	Restricted
			\ARC-44	CORDEX Arctic raw files	Restricted

		\eta	\NAM-44	CORDEX North America raw files	Restricted
			\raw_data	Current and Future ETA model data at 40km	Restricted
			\_describes	Describe info by variable (69 variables available)	Available
			\boundary_conditions	Lateral Boundary Conditions for PRECIS runs	Available
			\post_processed	Daily, Monthly, 30yr avg PRECIS data in ESRI-Grid/Ascii format	Available
			\raw_data	Setting data for run PRECIS	Available
			\software	PRECIS software and libraries	Restricted
	\srtm			Processed STRM Data Version 4.1.	Available
\data_cluster3	\LANDSAT	\tree_cover_GLCF	\procesed	Mosaics created from raw tree cover data	Available
			\raw	Raw Tree cover organized by Path-Row Landsat from the University of Maryland	Available
	\marksim-files	\gcm4data		Binary files (.bin) with data for the GCM regression interpolation	Available
		\MarkDat		Clustering data	Available
		\rnf from markov base		rnf MarkSim files	Available
		\Setup		Installation MarkSim files and coverages	Available
	\MODIS	\_modis_tiles_densified		Global MODIS coverage by tile in shapefile format	Available
		\_MODIS_tools		Software for processing MODIS images	Available
		\MODXXX		Files from different MODIS products in their raw format (HDF) and other processed formats (geoTIFF, GRID)	Available
		\WATER_MASK_MOD		Water mask created from MOD35 imagery	Available
	\trmm	\3b42\V7	\ASC	Tropical Rainfall Measuring Mission (TRMM) in ASC format	Available
			\BIN	Tropical Rainfall Measuring Mission (TRMM) in BIN format	Available
\data_cluster4	\admin_boundaries			Administrative Boundaries at global,	Available

			country, adm1, adm2 levels.	
\gcm	\cmip3	\anomalies	AR4 anomalies in the raw GCM resolution	Available
		\baseinfo	Necessary info for downscaling method process	Available
		\disaggregated	Disaggregated of CMIP3 GCM outputs. Technical details at <a href="http://www.ccafs-climate.org/downloads/docs/Disaggregation-WP-02.pdf">http://www.ccafs-climate.org/downloads/docs/Disaggregation-WP-02.pdf</a>	Available
		\downscaled	Deltha Method downscaled of CMIP3 GCM outputs. Technical details at <a href="http://www.ccafs-climate.org/downloads/docs/Downscaling-WP-01.pdf">http://www.ccafs-climate.org/downloads/docs/Downscaling-WP-01.pdf</a>	Available
		\interpolations	Interpolated AR4 anomalies at 1km of resolution	Available
		\pattern_scaling_marksim	Future climatological data derived from the application of MarkSim daily weather generator	Available
		\performance	Evaluation of the GCM skill	Available
		\raw_data	Original GCM data (average and filled info)	Available
\observed	\gridded_products	\arc	Gridded precipitation estimates (RFE and ARC) from CPC/FEWS	Available
		\cmorph	NOAA CPC Morphing Technique ("CMORPH") data	Available
		\cpc	NOAA Climate Prediction Center (CPC) data	Available
		\cru-ts	CRU-TS Historic Climate Database for GIS	Available
		\cru-ts-v3-1	CRU-TS v3.10.01 Historic Climate Database for GIS	Available
		\cru-ts-v3-21	CRU-TS v3.21 Historic Climate Database for GIS	Available
		\fews	Gridded precipitation estimates (RFE and ARC) from CPC/FEWS	Available
		\ghcn-gsod-merge	Interpolated anomalies from merged GHCN/GSSD daily climate database	Available

			\ncep-cfsr	NCEP Climate Forecast System Reanalysis (CFSR) data	Available	
			\rfe	Decadal (10-day) Rainfall Estimate (RFE)	Available	
			\srtm	Shuttle Radar Topography Mission data	Available	
			\tamsat	Tropical Applications of Meteorology using Satellite data	Available	
			\trmm-v3b42	Tropical Rainfall Measuring Mission (TRMM) - NASA data	Available	
			\worldclim	Global Climate Data from WorldClim	Available	
			\weather_station	\beaumont_data	Set of stations for Africa and Asian countries	Restricted
				\ciat-pjones	Set of stations filtered by Peter Jones	Restricted
				\cru-station	Land Stations used by the Climatic Research Unit within CRUTEM3	Available
				\ghcn	Global Historical Climatology Network data - NOAA	Available
				\gsod	Global Surface Summary of Day data - NOAA	Available
				\ideam-col	Weather stations info from Instituto de Hidrología, Meteorología y Estudios Ambientales of Colombia	Restricted
				\smn-mex	Weather stations from Servicio Meteorológico Nacional of Mexico	Restricted
				\worldclim	Global Climate Station Data from WorldClim	Available
			\portals	\amkn-gcm-data	AMKN portal data	Restricted
\ccaifs_climate	CCAIFS-Climate portal data	Restricted				
\ccaifs-analogues	Analogues portal data	Restricted				
\data_cluster5	\rcm	\eta	\raw	Climatology for ETA Model by 10km for Colombia and Ecuador	Restricted	
			\software	Software and libraries for installation of ETA Model	Restricted	
			\test_runs	Sazonal test runs	Restricted	