

Class	Type	Attribute	Long name	Unit	Source	Link
General	Identification	cabra_id	CABra's identification code of the streamflow gauge	-	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
		ana_id	ANA's identification code of the streamflow gauge	-	ANA	<a href="http://www.snirh.gov.br/hidroweb/serieshistoricas">http://www.snirh.gov.br/hidroweb/serieshistoricas</a>
	Location	longitude	Longitude coordinate of the streamflow gauge	dd		
		latitude	Latitude coordinate of the streamflow gauge	dd		
		gauge_hreg	Brazilian hydrographic region of the streamflow gauge	-	ANA/CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
		gauge_biome	Brazilian biome of the streamflow gauge location	-		
		gauge_state	Brazilian state of the streamflow gauge location	-		
	Quality	missing_data	Percentage of missing data	%		
		series_length	Timeseries length of the streamflow gauge	Years	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
quality_index		Quality index of the CABra catchment	-			
Topography	Elevation	elev_mean	Mean elevation of the catchment	m		
		elev_max	Maximum elevation of the catchment	m	Yamazaki et al. (2017)	<a href="http://hydro.iis.u-tokyo.ac.jp/~yamadai/MERIT_DEM/">http://hydro.iis.u-tokyo.ac.jp/~yamadai/MERIT_DEM/</a>
		elev_min	Minimum elevation of the catchment	m		
		elev_gauge	Elevation of the streamflow gauge	m		
	Area	catch_area	Area of the catchment	km <sup>2</sup>	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
	Slope	catch_slope	Mean slope of the catchment	%	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
	Order	catch_order	Strahler order of the catchment	-	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
Streamflow	Streamflow	q_daily	Daily streamflow of the catchment	m <sup>3</sup> s <sup>-1</sup>		
	Quality	q_cons	Level of consistence of the measurement	-	ANA	<a href="http://www.snirh.gov.br/hidroweb/serieshistoricas">http://www.snirh.gov.br/hidroweb/serieshistoricas</a>
Hydrological signatures (1980-2010)	Distribution	q_mean	Mean daily streamflow	m <sup>3</sup> s <sup>-1</sup>		
		q_1	Very low daily streamflow (1 <sup>st</sup> quantile)	m <sup>3</sup> s <sup>-1</sup>		
		q_5	Low daily streamflow (5 <sup>th</sup> quantile)	m <sup>3</sup> s <sup>-1</sup>	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
		q_95	High daily streamflow (95 <sup>th</sup> quantile)	m <sup>3</sup> s <sup>-1</sup>		
		q_99	Very high daily streamflow (99 <sup>th</sup> quantile)	m <sup>3</sup> s <sup>-1</sup>		
	Frequency and duration	q_hf	Frequency of high-flow events	day y <sup>-1</sup>		
		q_hd	Duration of high-high events	day y <sup>-1</sup>		
		q_lf	Frequency of low-flow events	day y <sup>-1</sup>		
		q_ld	Duration of low-flow events	day y <sup>-1</sup>	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
		q_hfd	Mean half-flow date	day of the year		
		q_zero	Frequency of zero-flow events	day y <sup>-1</sup>		
	Dynamics	baseflow_index	Baseflow index	-		
		q_cv	Coefficient of variation of daily streamflow	-		
		q_lcv	Coefficient of variation of low-flows	-		
		q_hcv	Coefficient of variation of high-flows	-	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
		q_elasticity	Elasticity of daily streamflow	-		
		fdc_slope	Slope of the flow duration curve (between 33 <sup>th</sup> and 66 <sup>th</sup> percentiles)	-		
Runoff	runoff_coef	Runoff coefficient	-	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>	
Rainfall	annual_p	Mean annual precipitation	mm day <sup>-1</sup>	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>	

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Meteorological data	Precipitation	p_ref	Daily precipitation from REF dataset	mm day <sup>-1</sup>	Xavier et al. (2016)	<a href="https://utexas.app.box.com/v/Xavier-et-al-IJOC-DATA">https://utexas.app.box.com/v/Xavier-et-al-IJOC-DATA</a>
		p_era5	Daily precipitation from ERA5 dataset	mm day <sup>-1</sup>	ERA5	<a href="https://cds.climate.copernicus.eu/cdsapp#!/dataset/reanalysis-era5-single-levels?tab=form">https://cds.climate.copernicus.eu/cdsapp#!/dataset/reanalysis-era5-single-levels?tab=form</a>
		p_ens	Daily precipitation from ENS dataset	mm day <sup>-1</sup>	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
	Temperature	tmean_ref	Daily mean temperature from REF dataset	°C		
		tmax_ref	Daily maximum temperature from REF dataset	°C	Xavier et al. (2016)	<a href="https://utexas.app.box.com/v/Xavier-et-al-IJOC-DATA">https://utexas.app.box.com/v/Xavier-et-al-IJOC-DATA</a>
		tmin_ref	Daily minimum temperature from REF dataset	°C		
		tmean_era5	Daily mean temperature from ERA5 dataset	°C		
		tmax_era5	Daily maximum temperature from ERA5 dataset	°C	ERA5	<a href="https://cds.climate.copernicus.eu/cdsapp#!/dataset/reanalysis-era5-single-levels?tab=form">https://cds.climate.copernicus.eu/cdsapp#!/dataset/reanalysis-era5-single-levels?tab=form</a>
		tmin_era5	Daily minimum temperature from ERA5 dataset	°C		
		tmean_ens	Daily mean temperature from ENS dataset	°C		
	Relative humidity	tmax_ens	Daily maximum temperature from ENS dataset	°C	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
		tmin_ens	Daily minimum temperature from ENS dataset	°C		
		rh_ref	Daily mean relative humidity from REF dataset	%	Xavier et al. (2016)	<a href="https://utexas.app.box.com/v/Xavier-et-al-IJOC-DATA">https://utexas.app.box.com/v/Xavier-et-al-IJOC-DATA</a>
		rh_era5	Daily mean relative humidity from ERA5 dataset	%	ERA5	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
	Solar radiation	rh_ens	Daily mean relative humidity from ENS dataset	%	CABra dataset	<a href="https://cds.climate.copernicus.eu/cdsapp#!/dataset/reanalysis-era5-single-levels?tab=form">https://cds.climate.copernicus.eu/cdsapp#!/dataset/reanalysis-era5-single-levels?tab=form</a>
		srad_xav	Daily solar radiation from REF dataset	MJ m <sup>2</sup> day <sup>-1</sup>	Xavier et al. (2016)	<a href="https://utexas.app.box.com/v/Xavier-et-al-IJOC-DATA">https://utexas.app.box.com/v/Xavier-et-al-IJOC-DATA</a>
		srad_era	Daily solar radiation from ERA5	MJ m <sup>2</sup> day <sup>-1</sup>	ERA5	<a href="https://cds.climate.copernicus.eu/cdsapp#!/dataset/reanalysis-era5-single-levels?tab=form">https://cds.climate.copernicus.eu/cdsapp#!/dataset/reanalysis-era5-single-levels?tab=form</a>
	Wind	srad_ens	Daily solar radiation from ENSEMBLE	MJ m <sup>2</sup> day <sup>-1</sup>	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
		wnd_ref	Daily 2m mean wind speed from REF dataset	m/s	Xavier et al. (2016)	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
		wnd_era5	Daily 2m mean wind speed of the catchment	m/s	ERA5	<a href="https://cds.climate.copernicus.eu/cdsapp#!/dataset/reanalysis-era5-single-levels?tab=form">https://cds.climate.copernicus.eu/cdsapp#!/dataset/reanalysis-era5-single-levels?tab=form</a>
	Evapotranspiration	wnd_ens	Daily 2m mean wind speed of the catchment	m/s	CABRA dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
et_actual		Daily actual evapotranspiration from GLEAM v3	mm.day <sup>-1</sup>	GLEAM v3	<a href="https://www.gleam.eu/#downloadshttps://www.gleam.eu/#downloads">https://www.gleam.eu/#downloadshttps://www.gleam.eu/#downloads</a>	
pet_pm		Daily potential evapotranspiration (Penman-Monteith method)	mm.day <sup>-1</sup>			
pet_pt		Daily potential evapotranspiration (Priestley-Taylor method)	mm.day <sup>-1</sup>	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>	
Climate indices (1980-2010)	Precipitation	pet_hg	Daily potential evapotranspiration (Hargreaves method)	mm.day <sup>-1</sup>		
		clim_p	Long-term mean daily precipitation	mm.day <sup>-1</sup>	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
	Temperature	clim_tmin	Long-term mean daily minimum temperature	°C	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
		clim_tmax	Long-term mean daily maximum temperature	°C		
	Relative humidity	clim_rh	Long-term mean daily relative humidity	%	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
	Wind	clim_wind	Long-term mean daily 2m wind speed	m/s	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
	Solar radiation	clim_srad	Long-term mean daily solar radiation	MJ m <sup>2</sup> day <sup>-1</sup>	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
	Evapotranspiration	clim_et	Long-term mean daily actual evapotranspiration	mm day <sup>-1</sup>	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>
		clim_pet	Long-term mean daily potential evapotranspiration	mm day <sup>-1</sup>		
Aridity	aridity_index	Aridity index of the catchment	-	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>	
Seasonality	p_seasonality	Seasonality and timing of precipitation	-	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>	
Quality	clim_quality	Indicator of source dataset for the long-term calculations	-	CABra dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>	

Class	Type	Attribute	Long name	Unit	Source	Link	
Land-cover and Land-use	Land-cover and land-use	cover_main	Most common cover	-			
		cover_bare	Bare soil fraction of cover	%			
		cover_forest	Forest fraction of cover	%			
		cover_grass	Grass fraction of cover	%			
		cover_shrub	Shrub fraction of cover	%			
		cover_moss	Moss fraction of cover	%	Proba-V	<a href="https://lcviewer.vito.be/">https://lcviewer.vito.be/</a>	
		cover_crops	Crops fraction of cover	%			
		cover_urban	Urban fraction of cover	%			
		cover_snow	Snow fraction of cover	%			
		cover_waterp	Water fraction of cover (permanent)	%			
		cover_waters	Water fraction of cover (seasonal)	%			
	Vegetation		ndvi_djf	DJF Normalized difference vegetation index	-		
			ndvi_mam	MAM Normalized difference vegetation index	-	Proba-V, SPOT-4, SPOT-5	<a href="https://land.copernicus.vgt.vito.be/">https://land.copernicus.vgt.vito.be/</a>
ndvi_jja			JJA Normalized difference vegetation index	-			
ndvi_son			SON Normalized difference vegetation index	-			
Groundwater	Water table	catch_wtd	Water table depth	m	Fan et al. (2013)	<a href="http://thredds-gfml.usc.es/thredds/catalog/GLOBALWTDFTP/annualmeans/catalog.html?dataset=GLOBALWTDFTP/annualmeans/SAMERICA_WTD_annualmean.nc">http://thredds-gfml.usc.es/thredds/catalog/GLOBALWTDFTP/annualmeans/catalog.html?dataset=GLOBALWTDFTP/annualmeans/SAMERICA_WTD_annualmean.nc</a>	
	Height above the nearest drainage	catch_hand	Height above the nearest drainage	m	INPE	<a href="http://www.dpi.inpe.br/amb_data/AmericaSul/SAmerica_HAND50.zip">http://www.dpi.inpe.br/amb_data/AmericaSul/SAmerica_HAND50.zip</a>	
		hand_class	Class of the height above the nearest drainage	-	CABRA dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>	
	Aquifers	aquif_name	Aquifer name	-	ANA	<a href="https://metadados.ana.gov.br/geonetwork/srv/en/resources.get?id=36&amp;fname=GEOFT_SYSTEMA_AQUIFERO_AFLOLANTE.zip&amp;access=private">https://metadados.ana.gov.br/geonetwork/srv/en/resources.get?id=36&amp;fname=GEOFT_SYSTEMA_AQUIFERO_AFLOLANTE.zip&amp;access=private</a>	
		aquif_type	Aquifer rock type	-			
	Wells	well_number	Number of experimental wells	-			
well_static		Static level of water table depth	m	CPRM	<a href="http://rimasweb.cprm.gov.br/">http://rimasweb.cprm.gov.br/</a>		
well_dynamic		Dynamic level of water table depth	m				
Geology	Lithology	catch_lith	Most common lithology class	-	GLIM	<a href="https://www.dropbox.com/s/9vuowtebp9f1iud/LiMW_GIS%202015.gdb.zip?dl=0">https://www.dropbox.com/s/9vuowtebp9f1iud/LiMW_GIS%202015.gdb.zip?dl=0</a>	
	Subsurface geology	sub_porosity	Subsurface porosity	-	GLHYMPS	<a href="https://dataverse.scholarsportal.info/dataset.xhtml?persistentId=doi:10.5683/SP2/DLGXYO">https://dataverse.scholarsportal.info/dataset.xhtml?persistentId=doi:10.5683/SP2/DLGXYO</a>	
		sub_permeability	Subsurface permeability	log(k) (m <sup>2</sup> )			
		sub_hconduc	Subsurface hydraulic conductivity	log(K) (m s <sup>-1</sup> )	CABRA dataset	<a href="https://zenodo.org/record/4070146">10.5281/zenodo.4070146</a>	
Soil	Soil type	soil_type	Most common soil type	-	EMBRAPA		
	Soil depth	soil_depth	Soil depth to bedrock	m	SoilGrids	<a href="https://files.isric.org/soilgrids/data/recent/">https://files.isric.org/soilgrids/data/recent/</a>	
	Soil density	soil_bulk	Soil bulk density	g cm <sup>-3</sup>	SoilGrids	<a href="https://files.isric.org/soilgrids/data/recent/">https://files.isric.org/soilgrids/data/recent/</a>	
	Soil texture	soil_sand	Sand portion on soil first layer	%			
		soil_silt	Silt portion on soil first layer	%			
		soil_clay	Clay portion on soil first layer	%	SoilGrids	<a href="https://files.isric.org/soilgrids/data/recent/">https://files.isric.org/soilgrids/data/recent/</a>	
		soil_textclass	Soil texture classification (USDA)	-			
Organic content	soil_carbon	Organic carbon content on soil first layer	‰	SoilGrids	<a href="https://files.isric.org/soilgrids/data/recent/">https://files.isric.org/soilgrids/data/recent/</a>		

Class	Type	Attribute	Long name	Unit	Source	Link
Hydrological disturbance	Reservoirs	res_number	Number of reservoirs	-	ANA	<a href="https://metadados.ana.gov.br/geonetwork/srv/pt/main.home?uuid=7d054e5a-8cc9-403c-9f1a-085fd933610c">https://metadados.ana.gov.br/geonetwork/srv/pt/main.home?uuid=7d054e5a-8cc9-403c-9f1a-085fd933610c</a>
		res_area	Total area of catchment's reservoirs	km <sup>2</sup>	CABra dataset	<a href="https://zenodo.org/doi/10.5281/zenodo.4070146">10.5281/zenodo.4070146</a>
		res_area%	Catchment's area percentage covered by reservoirs	%		
		res_volume	Total volume of reservoirs	km <sup>3</sup>	ANA	<a href="https://metadados.ana.gov.br/geonetwork/srv/pt/main.home?uuid=7d054e5a-8cc9-403c-9f1a-085fd933610c">https://metadados.ana.gov.br/geonetwork/srv/pt/main.home?uuid=7d054e5a-8cc9-403c-9f1a-085fd933610c</a>
		res_regulation	Reservoir's regulation capacity of mean annual flow	-	CABra dataset	<a href="https://zenodo.org/doi/10.5281/zenodo.4070146">10.5281/zenodo.4070146</a>
	Water demand	water_demand	Water demand	mm year <sup>-1</sup>	ANA	<a href="ftp://geoftpana:P%40ssw0rd1650@ftpana.ana.gov.br/5146c9ec-5589-4af1-bd64-d34848f484fd/ANA_DemandaHidrica_Microbacia_2017.gdb.zip">ftp://geoftpana:P%40ssw0rd1650@ftpana.ana.gov.br/5146c9ec-5589-4af1-bd64-d34848f484fd/ANA_DemandaHidrica_Microbacia_2017.gdb.zip</a>
	Urbanization	cover_urban	Urban fraction of cover	%	PROBA-V	<a href="https://lcviewer.vito.be/">https://lcviewer.vito.be/</a>
		cover_crops	Crops fraction of cover	%		
		dist_urban	Distance to the nearest urban cover	km	CABra dataset	<a href="https://zenodo.org/doi/10.5281/zenodo.4070146">10.5281/zenodo.4070146</a>
	Index	hdisturb_index	Index of hydrologic disturbance in the catchment	-	CABra dataset	<a href="https://zenodo.org/doi/10.5281/zenodo.4070146">10.5281/zenodo.4070146</a>

