

AidData GeoQuery Request Documentation

Report Info

Request Name	Request 01-03-19 12:23
Request Id	5c2e4511c15e002940b7ff8f
Email	sgoodman@aiddata.org
Generated on	2019-01-03 12:25:07 (EST)
Download Link	geo.aiddata.org/query/#!/status/5c2e4511c15e002940b7ff8f

Processing Timeline

submitted	2019-01-03 12:23:29 (EST)
prepared	2019-01-03 12:24:07 (EST)
processed	2019-01-03 12:25:07 (EST)
completed	2019-01-03 12:25:07 (EST)

Citation

Please cite the following in any and all applications of the extracted datasets:

Goodman, S., Ben Yishay, A., Runfola, D., 2016. Overview of the geo Framework. AidData. Available online at geo.aiddata.org. DOI: 10.13140/RG.2.2.28363.59686

Contents of Request Zip

- request documentation (this pdf document)
- a comma separated value (CSV) file containing your data
- JSON file containing your request parameters
- "Introducing the AidData Geo Framework" paper (pdf)

For additional information, usage tips, guides and more please visit geo.aiddata.org.

To get in touch, please contact us via geo@aiddata.org.

Meta Information

Boundary

Title	Nigeria ADM1 - GeoBoundaries v1.3.3
Name	nga_adm1_gb_1_3_3
Version	1_3_3
Description	GeoBoundaries boundary file for ADM1 in Nigeria.
Details	(no additional details)
Bounding Box	[[[2.668432039000038, 13.901025479000054], [2.668432039000038, 4.277143955000042], [14.678083435000076, 4.277143955000042], [14.678083435000076, 13.901025479000054], [2.668432039000038, 13.901025479000054]]]
Date Added	2018-08-23
Date Updated	2018-08-27
Source Name	AidData GeoBoundaries
Source Link	http://www.geoboundaries.org
Citation	Seitz, L., Lv, Z., Goodman, S., Runfol, D. "Chapter 3: GeoBoundaries - A Global, Redistributable Map of Administrative Zones." GeoQuery User's Guide. Ed. Dan Runfol Ariel BenYishay, Seth Goodman. Williamsburg, Va: AidData, 2018.

Selection 1 - Global Environment Facility Sectors Geocoded Aid Data v1.1.0

Title	Global Environment Facility Sectors Geocoded Aid Data v1.1.0
Name	globalenvironmentfacilitysectors_geocodedresearchrelease_level1_v1_1_0
Version	1.1.0
Column Names	globalenvironmentfacilitysectors_geocodedresearchrelease_level1_v1_1_0. 14f29e0. sum
Filters	hash: 14f29e0cb8a33238747ddc3b7947d159fc93b61e
ad_sector_names	All
Description	Aid data from Global Environment Facility Sectors , geocoded and published by AidData. Covers projects from 1994 to 2014. Version 1.1.0.
Details	(no additional details)

Bounding Box	[[[-175.23502, 69.08333], [-175.23502, -54.5], [179.14478, -54.5], [179.14478, 69.08333], [-175.23502, 69.08333]]]
Date Added	2018-06-09
Date Updated	2018-06-09
Source Name	Global Environment Facility
Source Link	Not Available
Citation	AidData. 2018. GlobalEnvironmentFacilitySectors_GeocodedResearchRelease_Level1_v1.1.0 geocoded dataset. Williamsburg, VA and Washington, DC: AidData. Accessed on [date]. http://aiddata.org/research-datasets .
Download Link	http://aiddata.org/datasets

Selection 2 - Normalized Difference Vegetation Index - NDVI (LTDR v4 - AVHRR)

Title	Normalized Difference Vegetation Index - NDVI (LTDR v4 - AVHRR)
Name	ltdr_avhrr_ndvi_v4_yearly
Version	4
Column Names	Format: "ltdr_avhrr_ndvi_v4_yearly.<temporal>.<method>" for all combinations of <temporal> and <method> which can be found in the "Temporal Selection" and "Extract Types Selected" fields below (2 columns total)
Temporal Selection	2010, 2005
Extract Types Selected	mean (average NDVI value per unit of analysis)
Description	Yearly value for Normalized Difference Vegetation Index (NDVI). Created using the NASA Long Term Data Record (v4) AVHRR data.
Details	Created by aggregating daily data to monthly by taking the maximum value, then averaging the monthly data to get yearly values. All negative NDVI values were truncated to 0 and saturated pixels were adjusted to the max of the normal NDVI range (10000).
Bounding Box	[[[-180.0, 90.0], [-180.0, -90.0], [180.0, -90.0], [180.0, 90.0], [-180.0, 90.0]]]
Date Added	2017-07-25
Date Updated	2017-07-25
Source Name	NASA/Goddard Space Flight Center
Source Link	http://ltdr.nascom.nasa.gov/ltdr/ltdr.html

Citation	Pedely JA, Devadiga S, Masuoka E et al. (2007) Generating a Long-term Land Data Record from the AVHRR and MODIS Instruments. Proceedings of IGARRS 2007, pp. 1021–1025. Institute of Electrical and Electronics Engineers, NY, USA.
Variable Description	positive NDVI values 0:10000
Resolution	0.05
Factor	10000.0

Selection 3 - DMSP-OLS Nighttime Lights

Title	DMSP-OLS Nighttime Lights
Name	v4composites_calibrated_201709
Version	4
Column Names	Format: "v4composites_calibrated_201709.<temporal>.<method>" for all combinations of <temporal> and <method> which can be found in the "Temporal Selection" and "Extract Types Selected" fields below (2 columns total)
Temporal Selection	2010, 2005
Extract Types Selected	mean (average value measured within each unit of analysis)
Description	Version 4 DMSP-OLS Nighttime Lights composites. The lights from cities, towns, and other sites with persistent lighting, including gas flares. Ephemeral events, such as fires have been discarded. Calibrated across sensors and years using Elvidge 2014 coefficients.
Details	Calibrated across sensors and years using Elvidge 2014 coefficients (coefficients for 2014 acquired via communications with Elvidge, 2016). Values greater than 63 after calibration were truncated to 63. Calibration formula fixed from previous processing of raw v4composites dataset. Calibration citation: Elvidge, Christopher D., Feng-Chi Hsu, Kimberly E. Baugh, and Tilottama Ghosh. 'National trends in satellite-observed lighting.' Global urban monitoring and assessment through earth observation 23 (2014): 97-118.
Bounding Box	[[[-180, 75.00416666665], [-180, -65.00416610665], [180, -65.00416610665], [180, 75.00416666665], [-180, 75.00416666665]]]
Date Added	2017-09-25
Date Updated	2017-10-03
Source Name	NOAA National Geophysical Data Center
Source Link	https://ngdc.noaa.gov/eog/dmsp/downloadV4composites.html

Citation	Image and Data processing by NOAA's National Geophysical Data Center. DMSP data collected by the US Air Force Weather Agency.
Variable Description	digital number 0-63.
Resolution	0.00833333333333
Factor	1.0

Interpreting CSV Column Names

Each CSV will contain a column labeled "asdf_id" which has values for each feature that are unique (within that boundary dataset), one or more columns for your extract data, followed by the original source attributes for the boundary file (e.g., from GADM)

The standard format for extract data column names is a three part string delimited by periods (.)

<dataset>.<filter>.<method>

where

<dataset> is the name of the dataset which was extracted

<filter> describes how the dataset was filtered. This is usually a temporal value (e.g., YYYY format for year such as "1999", "none" for temporally invariant data, or a unique hash describing more complex filters, such as for aid datasets)

<method> is the extract method used to aggregate dataset values to boundary features (e.g., "mean", "sum")

Notes - Aid data extracts

The <filter> component of aid data extracts is a unique hash that corresponds to the filter combination used to generate that particular aid data extract (e.g., donor, sector, year, status). For each aid data extract you request, you will see three columns in the CSV that have the same <dataset> and <filter> sections of the column name with the <methods> of the three being different.

These three <method> values are:

- "sum" is the total aid for each feature within the boundary based on the distribution of aid used when building the aid data
- "potential" is the maximum aid that could have been allocated to each feature regardless of the distribution of aid used
- "reliability" is a ratio of sum:potential representing a simplistic measure of how accurate the distribution and aggregation of aid was relative to the boundary features used during the extract process

Notes - Categorical extracts

Data extracted using the categorical method will have multiple columns with the same <dataset> and <filter> where the <method> for each is "categorical_<category>".

For a simple landcover dataset this might look like:

- landcover.2000.categorical_water
- landcover.2000.categorical_forest
- landcover.2000.categorical_desert

Usage Notes

- If you attempt to merge `geo(query)` results with vector data (e.g., shapefiles) downloaded from GADM, the GADM data may not always contain a unique id field to merge on. In these cases, please feel free to contact us and we can provide you with a modified file that contains a unique field for merging ("asdf_id" field, found in all result csvs).

Notes About Aid Datasets

- When requesting aid data using a very specific filter (usually resulting in only a single project match), the location count shown in geo(query) may be inaccurate. This can result in aid filters which appear valid while building your request, but result in no aid data in your results csv. This is due to a slight reduction in the accuracy of location counts for the web page in order to make the responses fast enough for user interaction.
- The year filter for aid data is based on project start and end dates (determined by earliest and latest transactions). Because projects are represented by year ranges, multiple aid data selections for individual years may contain duplicate aid. This will result in an inflated total if you sum the aid from each individual year (compared to a single selection for all years). Limited source information on individual or even yearly transactions for a project prevent us from offering more granular temporal aid values for projects.
- All aid data selections result in commitment values, regardless of whether you filter by commitment values or disbursement values (or both). This is due to the notably better project coverage of commitments vs disbursements (e.g., World Bank aid dataset has 99% commitment coverage vs ~75% for disbursements).

Terms of Use

The database and derived products produced by this tool are governed by the licenses described at <http://http://geoquery.org/toolsguides>. By clicking submit you agree to the terms, which are summarized as:

As long as you:

Attribute: You must attribute any public use of the database, or works produced from the database, in the manner specified in the license. For any use or redistribution of the database, or works produced from it, you must make clear to others the license of the database and keep intact any notices on the original database.

You are free:

To Share: To copy, distribute and use the database.

To Create: To produce works from the database.

To Adapt: To modify, transform and build upon the database.

This is not a license. It is simply a handy reference for understanding the ODC-BY 1.0 — it is a human-readable expression of some of its key terms. This summary has no legal value, and its contents do not appear in the actual license. Read the full ODC-BY 1.0 license text at geo.aiddata.org/license for the exact terms that apply.

Acknowledgements

GeoQuery is an academic research project based out of AidData at William and Mary dedicated to enabling the use of spatial data in decision-making.

This work was performed in part using computational facilities at the College of William and Mary which were provided with assistance from the National Science Foundation, the Virginia Port Authority, and Virginia's Commonwealth Technology Research Fund.