

# AidData GeoQuery Request Documentation

## Report Info

Request Name	Request 12-29-22 14:48
Request Id	63adef115959e0672b75a2b3
Email	cullen_molitor@bren.ucsb.edu
Generated on	2022-12-29 14:46:04 (EST)
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## Processing Timeline

submitted	2022-12-29 14:48:33 (EST)
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processed	2022-12-29 14:44:57 (EST)
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## Citation

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

*Goodman, S., BenYishay, A., Lv, Z., & Runfola, D. (2019). GeoQuery: Integrating HPC systems and public web-based geospatial data tools. Computers & Geosciences, 122, 103-112.*

## Contents of Request Zip

- request documentation (this pdf document)
- a comma separated value (CSV) file containing your data
- JSON file containing your request parameters
- GeoQuery paper (pdf)

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## Meta Information

### Boundary

Title	Zambia ADM2 - GeoBoundaries v4
Name	zmb_adm2_gb_v4
Version	v4
Description	GeoBoundaries boundary file for ADM2 in Zambia.
Details	(no additional details)
Bounding Box	[[[21.99620700536434, -8.271976286954896], [21.99620700536434, -18.077374279895707], [33.709698054774606, -18.077374279895707], [33.709698054774606, -8.271976286954896], [21.99620700536434, -8.271976286954896]]]
Date Added	2021-09-08
Date Updated	2021-09-08
Source Name	geoBoundaries
Source Link	<a href="http://www.geoboundaries.org">http://www.geoboundaries.org</a>
Citation	Runfola, Daniel, Austin Anderson, Heather Baier, Matt Crittenden, Elizabeth Dowker, Sydney Fuhrig, Seth Goodman, Grace Grimsley, Rachel Layko, Graham Melville, Maddy Mulder, Rachel Oberman, Joshua Panganiban, Andrew Peck, Leigh Seitz, Sylvia Shea, Hannah Slevin, Rebecca Yougerman, Lauren Hobbs. "geoBoundaries: A global database of political administrative boundaries." Plos one 15, no. 4 (2020): e0231866.

### Selection 1 - Monthly Temperature - CRU TS (v4.05)

Title	Monthly Temperature - CRU TS (v4.05)
Name	cru_ts_405_tmp_monthly_mean
Version	4.05
Column Names	Format: "cru_ts_405_tmp_monthly_mean.<temporal>.<method>" for all combinations of <temporal> and <method> which can be found in the "Temporal Selection" and "Extract Types Selected" fields below (3156 columns total)
Temporal Selection (0)	202012, 202011, 202010, 202009, 202008, 202007, 202006, 202005, 202004, 202003, 202002, 202001, 201912, 201911, 201910, 201909, 201908, 201907, 201906, 201905, 201904, 201903, 201902, 201901, 201812
Temporal Selection (1)	201811, 201810, 201809, 201808, 201807, 201806, 201805, 201804, 201803, 201802, 201801, 201712, 201711, 201710, 201709, 201708, 201707, 201706, 201705, 201704, 201703, 201702, 201701, 201612, 201611
Temporal Selection (2)	201610, 201609, 201608, 201607, 201606, 201605, 201604, 201603, 201602, 201601, 201512, 201511, 201510, 201509, 201508, 201507, 201506, 201505, 201504, 201503, 201502, 201501, 201412, 201411, 201410
Temporal Selection (3)	201409, 201408, 201407, 201406, 201405, 201404, 201403, 201402, 201401, 201312, 201311, 201310, 201309, 201308, 201307, 201306, 201305, 201304, 201303, 201302, 201301, 201212, 201211, 201210, 201209
Temporal Selection (4)	201208, 201207, 201206, 201205, 201204, 201203, 201202, 201201, 201112, 201111, 201110, 201109, 201108, 201107, 201106, 201105, 201104, 201103, 201102, 201101, 201012, 201011, 201010, 201009, 201008
Temporal Selection (5)	201007, 201006, 201005, 201004, 201003, 201002, 201001, 200912, 200911, 200910, 200909, 200908, 200907, 200906, 200905, 200904, 200903, 200902, 200901, 200812, 200811, 200810, 200809, 200808, 200807
Temporal Selection (6)	200806, 200805, 200804, 200803, 200802, 200801, 200712, 200711, 200710, 200709, 200708, 200707, 200706, 200705, 200704, 200703, 200702, 200701, 200612, 200611, 200610, 200609, 200608, 200607, 200606

Temporal Selection (7)	200605, 200604, 200603, 200602, 200601, 200512, 200511, 200510, 200509, 200508, 200507, 200506, 200505, 200504, 200503, 200502, 200501, 200412, 200411, 200410, 200409, 200408, 200407, 200406, 200405
Temporal Selection (8)	200404, 200403, 200402, 200401, 200312, 200311, 200310, 200309, 200308, 200307, 200306, 200305, 200304, 200303, 200302, 200301, 200212, 200211, 200210, 200209, 200208, 200207, 200206, 200205, 200204
Temporal Selection (9)	200203, 200202, 200201, 200112, 200111, 200110, 200109, 200108, 200107, 200106, 200105, 200104, 200103, 200102, 200101, 200012, 200011, 200010, 200009, 200008, 200007, 200006, 200005, 200004, 200003
Temporal Selection (10)	200002, 200001, 199912, 199911, 199910, 199909, 199908, 199907, 199906, 199905, 199904, 199903, 199902, 199901, 199812, 199811, 199810, 199809, 199808, 199807, 199806, 199805, 199804, 199803, 199802
Temporal Selection (11)	199801, 199712, 199711, 199710, 199709, 199708, 199707, 199706, 199705, 199704, 199703, 199702, 199701, 199612, 199611, 199610, 199609, 199608, 199607, 199606, 199605, 199604, 199603, 199602, 199601
Temporal Selection (12)	199512, 199511, 199510, 199509, 199508, 199507, 199506, 199505, 199504, 199503, 199502, 199501, 199412, 199411, 199410, 199409, 199408, 199407, 199406, 199405, 199404, 199403, 199402, 199401, 199312
Temporal Selection (13)	199311, 199310, 199309, 199308, 199307, 199306, 199305, 199304, 199303, 199302, 199301, 199212, 199211, 199210, 199209, 199208, 199207, 199206, 199205, 199204, 199203, 199202, 199201, 199112, 199111
Temporal Selection (14)	199110, 199109, 199108, 199107, 199106, 199105, 199104, 199103, 199102, 199101, 199012, 199011, 199010, 199009, 199008, 199007, 199006, 199005, 199004, 199003, 199002, 199001, 198912, 198911, 198910
Temporal Selection (15)	198909, 198908, 198907, 198906, 198905, 198904, 198903, 198902, 198901, 198812, 198811, 198810, 198809, 198808, 198807, 198806, 198805, 198804, 198803, 198802, 198801, 198712, 198711, 198710, 198709

Temporal Selection (16)	198708, 198707, 198706, 198705, 198704, 198703, 198702, 198701, 198612, 198611, 198610, 198609, 198608, 198607, 198606, 198605, 198604, 198603, 198602, 198601, 198512, 198511, 198510, 198509, 198508
Temporal Selection (17)	198507, 198506, 198505, 198504, 198503, 198502, 198501, 198412, 198411, 198410, 198409, 198408, 198407, 198406, 198405, 198404, 198403, 198402, 198401, 198312, 198311, 198310, 198309, 198308, 198307
Temporal Selection (18)	198306, 198305, 198304, 198303, 198302, 198301, 198212, 198211, 198210, 198209, 198208, 198207, 198206, 198205, 198204, 198203, 198202, 198201, 198112, 198111, 198110, 198109, 198108, 198107, 198106
Temporal Selection (19)	198105, 198104, 198103, 198102, 198101, 198012, 198011, 198010, 198009, 198008, 198007, 198006, 198005, 198004, 198003, 198002, 198001, 197912, 197911, 197910, 197909, 197908, 197907, 197906, 197905
Temporal Selection (20)	197904, 197903, 197902, 197901, 197812, 197811, 197810, 197809, 197808, 197807, 197806, 197805, 197804, 197803, 197802, 197801, 197712, 197711, 197710, 197709, 197708, 197707, 197706, 197705, 197704
Temporal Selection (21)	197703, 197702, 197701, 197612, 197611, 197610, 197609, 197608, 197607, 197606, 197605, 197604, 197603, 197602, 197601, 197512, 197511, 197510, 197509, 197508, 197507, 197506, 197505, 197504, 197503
Temporal Selection (22)	197502, 197501, 197412, 197411, 197410, 197409, 197408, 197407, 197406, 197405, 197404, 197403, 197402, 197401, 197312, 197311, 197310, 197309, 197308, 197307, 197306, 197305, 197304, 197303, 197302
Temporal Selection (23)	197301, 197212, 197211, 197210, 197209, 197208, 197207, 197206, 197205, 197204, 197203, 197202, 197201, 197112, 197111, 197110, 197109, 197108, 197107, 197106, 197105, 197104, 197103, 197102, 197101
Temporal Selection (24)	197012, 197011, 197010, 197009, 197008, 197007, 197006, 197005, 197004, 197003, 197002, 197001, 196912, 196911, 196910, 196909, 196908, 196907, 196906, 196905, 196904, 196903, 196902, 196901, 196812

Temporal Selection (25)	196811, 196810, 196809, 196808, 196807, 196806, 196805, 196804, 196803, 196802, 196801, 196712, 196711, 196710, 196709, 196708, 196707, 196706, 196705, 196704, 196703, 196702, 196701, 196612, 196611
Temporal Selection (26)	196610, 196609, 196608, 196607, 196606, 196605, 196604, 196603, 196602, 196601, 196512, 196511, 196510, 196509, 196508, 196507, 196506, 196505, 196504, 196503, 196502, 196501, 196412, 196411, 196410
Temporal Selection (27)	196409, 196408, 196407, 196406, 196405, 196404, 196403, 196402, 196401, 196312, 196311, 196310, 196309, 196308, 196307, 196306, 196305, 196304, 196303, 196302, 196301, 196212, 196211, 196210, 196209
Temporal Selection (28)	196208, 196207, 196206, 196205, 196204, 196203, 196202, 196201, 196112, 196111, 196110, 196109, 196108, 196107, 196106, 196105, 196104, 196103, 196102, 196101, 196012, 196011, 196010, 196009, 196008
Temporal Selection (29)	196007, 196006, 196005, 196004, 196003, 196002, 196001, 195912, 195911, 195910, 195909, 195908, 195907, 195906, 195905, 195904, 195903, 195902, 195901, 195812, 195811, 195810, 195809, 195808, 195807
Temporal Selection (30)	195806, 195805, 195804, 195803, 195802, 195801, 195712, 195711, 195710, 195709, 195708, 195707, 195706, 195705, 195704, 195703, 195702, 195701, 195612, 195611, 195610, 195609, 195608, 195607, 195606
Temporal Selection (31)	195605, 195604, 195603, 195602, 195601, 195512, 195511, 195510, 195509, 195508, 195507, 195506, 195505, 195504, 195503, 195502, 195501, 195412, 195411, 195410, 195409, 195408, 195407, 195406, 195405
Temporal Selection (32)	195404, 195403, 195402, 195401, 195312, 195311, 195310, 195309, 195308, 195307, 195306, 195305, 195304, 195303, 195302, 195301, 195212, 195211, 195210, 195209, 195208, 195207, 195206, 195205, 195204
Temporal Selection (33)	195203, 195202, 195201, 195112, 195111, 195110, 195109, 195108, 195107, 195106, 195105, 195104, 195103, 195102, 195101, 195012, 195011, 195010, 195009, 195008, 195007, 195006, 195005, 195004, 195003

Temporal Selection (34)	195002, 195001, 194912, 194911, 194910, 194909, 194908, 194907, 194906, 194905, 194904, 194903, 194902, 194901, 194812, 194811, 194810, 194809, 194808, 194807, 194806, 194805, 194804, 194803, 194802
Temporal Selection (35)	194801, 194712, 194711, 194710, 194709, 194708, 194707, 194706, 194705, 194704, 194703, 194702, 194701, 194612, 194611, 194610, 194609, 194608, 194607, 194606, 194605, 194604, 194603, 194602, 194601
Temporal Selection (36)	194512, 194511, 194510, 194509, 194508, 194507, 194506, 194505, 194504, 194503, 194502, 194501, 194412, 194411, 194410, 194409, 194408, 194407, 194406, 194405, 194404, 194403, 194402, 194401, 194312
Temporal Selection (37)	194311, 194310, 194309, 194308, 194307, 194306, 194305, 194304, 194303, 194302, 194301, 194212, 194211, 194210, 194209, 194208, 194207, 194206, 194205, 194204, 194203, 194202, 194201, 194112, 194111
Temporal Selection (38)	194110, 194109, 194108, 194107, 194106, 194105, 194104, 194103, 194102, 194101, 194012, 194011, 194010, 194009, 194008, 194007, 194006, 194005, 194004, 194003, 194002, 194001, 193912, 193911, 193910
Temporal Selection (39)	193909, 193908, 193907, 193906, 193905, 193904, 193903, 193902, 193901, 193812, 193811, 193810, 193809, 193808, 193807, 193806, 193805, 193804, 193803, 193802, 193801, 193712, 193711, 193710, 193709
Temporal Selection (40)	193708, 193707, 193706, 193705, 193704, 193703, 193702, 193701, 193612, 193611, 193610, 193609, 193608, 193607, 193606, 193605, 193604, 193603, 193602, 193601, 193512, 193511, 193510, 193509, 193508
Temporal Selection (41)	193507, 193506, 193505, 193504, 193503, 193502, 193501, 193412, 193411, 193410, 193409, 193408, 193407, 193406, 193405, 193404, 193403, 193402, 193401, 193312, 193311, 193310, 193309, 193308, 193307
Temporal Selection (42)	193306, 193305
Extract Types Selected	mean (average temperature value per unit of analysis), max (maximum temperature value per unit of analysis), min (minimum temperature value per unit of analysis)
Description	Monthly temperature from Climate Research Unit (CRU) in degrees Celsius. Version 4.05

Details	Created by extracting monthly temperature data from CRU
Bounding Box	[[[-180.0, 90.0], [-180.0, -90.0], [180.0, -90.0], [180.0, 90.0], [-180.0, 90.0]]]
Date Added	2021-09-23
Date Updated	2021-09-23
Source Name	Climate Research Unit
Source Link	<a href="https://crudata.uea.ac.uk/cru/data/hrg/">https://crudata.uea.ac.uk/cru/data/hrg/</a>
Citation	Harris, I., Osborn, T.J., Jones, P. et al. Version 4 of the CRU TS monthly high-resolution gridded multivariate climate dataset. Sci Data 7, 109 (2020). <a href="https://doi.org/10.1038/s41597-020-0453-3">https://doi.org/10.1038/s41597-020-0453-3</a>
Variable Description	degrees Celsius
Resolution	0.5
Factor	1.0

## **Selection 2 - Monthly Precipitation - CRU TS (v4.05)**



Title	Monthly Precipitation - CRU TS (v4.05)
Name	cru_ts_405_pre_monthly_mean
Version	4.05
Column Names	Format: "cru_ts_405_pre_monthly_mean.<temporal>.<method>" for all combinations of <temporal> and <method> which can be found in the "Temporal Selection" and "Extract Types Selected" fields below (4320 columns total)
Temporal Selection (0)	202012, 202011, 202010, 202009, 202008, 202007, 202006, 202005, 202004, 202003, 202002, 202001, 201912, 201911, 201910, 201909, 201908, 201907, 201906, 201905, 201904, 201903, 201902, 201901, 201812
Temporal Selection (1)	201811, 201810, 201809, 201808, 201807, 201806, 201805, 201804, 201803, 201802, 201801, 201712, 201711, 201710, 201709, 201708, 201707, 201706, 201705, 201704, 201703, 201702, 201701, 201612, 201611
Temporal Selection (2)	201610, 201609, 201608, 201607, 201606, 201605, 201604, 201603, 201602, 201601, 201512, 201511, 201510, 201509, 201508, 201507, 201506, 201505, 201504, 201503, 201502, 201501, 201412, 201411, 201410
Temporal Selection (3)	201409, 201408, 201407, 201406, 201405, 201404, 201403, 201402, 201401, 201312, 201311, 201310, 201309, 201308, 201307, 201306, 201305, 201304, 201303, 201302, 201301, 201212, 201211, 201210, 201209
Temporal Selection (4)	201208, 201207, 201206, 201205, 201204, 201203, 201202, 201201, 201112, 201111, 201110, 201109, 201108, 201107, 201106, 201105, 201104, 201103, 201102, 201101, 201012, 201011, 201010, 201009, 201008
Temporal Selection (5)	201007, 201006, 201005, 201004, 201003, 201002, 201001, 200912, 200911, 200910, 200909, 200908, 200907, 200906, 200905, 200904, 200903, 200902, 200901, 200812, 200811, 200810, 200809, 200808, 200807
Temporal Selection (6)	200806, 200805, 200804, 200803, 200802, 200801, 200712, 200711, 200710, 200709, 200708, 200707, 200706, 200705, 200704, 200703, 200702, 200701, 200612, 200611, 200610, 200609, 200608, 200607, 200606

Temporal Selection (7)	200605, 200604, 200603, 200602, 200601, 200512, 200511, 200510, 200509, 200508, 200507, 200506, 200505, 200504, 200503, 200502, 200501, 200412, 200411, 200410, 200409, 200408, 200407, 200406, 200405
Temporal Selection (8)	200404, 200403, 200402, 200401, 200312, 200311, 200310, 200309, 200308, 200307, 200306, 200305, 200304, 200303, 200302, 200301, 200212, 200211, 200210, 200209, 200208, 200207, 200206, 200205, 200204
Temporal Selection (9)	200203, 200202, 200201, 200112, 200111, 200110, 200109, 200108, 200107, 200106, 200105, 200104, 200103, 200102, 200101, 200012, 200011, 200010, 200009, 200008, 200007, 200006, 200005, 200004, 200003
Temporal Selection (10)	200002, 200001, 199912, 199911, 199910, 199909, 199908, 199907, 199906, 199905, 199904, 199903, 199902, 199901, 199812, 199811, 199810, 199809, 199808, 199807, 199806, 199805, 199804, 199803, 199802
Temporal Selection (11)	199801, 199712, 199711, 199710, 199709, 199708, 199707, 199706, 199705, 199704, 199703, 199702, 199701, 199612, 199611, 199610, 199609, 199608, 199607, 199606, 199605, 199604, 199603, 199602, 199601
Temporal Selection (12)	199512, 199511, 199510, 199509, 199508, 199507, 199506, 199505, 199504, 199503, 199502, 199501, 199412, 199411, 199410, 199409, 199408, 199407, 199406, 199405, 199404, 199403, 199402, 199401, 199312
Temporal Selection (13)	199311, 199310, 199309, 199308, 199307, 199306, 199305, 199304, 199303, 199302, 199301, 199212, 199211, 199210, 199209, 199208, 199207, 199206, 199205, 199204, 199203, 199202, 199201, 199112, 199111
Temporal Selection (14)	199110, 199109, 199108, 199107, 199106, 199105, 199104, 199103, 199102, 199101, 199012, 199011, 199010, 199009, 199008, 199007, 199006, 199005, 199004, 199003, 199002, 199001, 198912, 198911, 198910
Temporal Selection (15)	198909, 198908, 198907, 198906, 198905, 198904, 198903, 198902, 198901, 198812, 198811, 198810, 198809, 198808, 198807, 198806, 198805, 198804, 198803, 198802, 198801, 198712, 198711, 198710, 198709

Temporal Selection (16)	198708, 198707, 198706, 198705, 198704, 198703, 198702, 198701, 198612, 198611, 198610, 198609, 198608, 198607, 198606, 198605, 198604, 198603, 198602, 198601, 198512, 198511, 198510, 198509, 198508
Temporal Selection (17)	198507, 198506, 198505, 198504, 198503, 198502, 198501, 198412, 198411, 198410, 198409, 198408, 198407, 198406, 198405, 198404, 198403, 198402, 198401, 198312, 198311, 198310, 198309, 198308, 198307
Temporal Selection (18)	198306, 198305, 198304, 198303, 198302, 198301, 198212, 198211, 198210, 198209, 198208, 198207, 198206, 198205, 198204, 198203, 198202, 198201, 198112, 198111, 198110, 198109, 198108, 198107, 198106
Temporal Selection (19)	198105, 198104, 198103, 198102, 198101, 198012, 198011, 198010, 198009, 198008, 198007, 198006, 198005, 198004, 198003, 198002, 198001, 197912, 197911, 197910, 197909, 197908, 197907, 197906, 197905
Temporal Selection (20)	197904, 197903, 197902, 197901, 197812, 197811, 197810, 197809, 197808, 197807, 197806, 197805, 197804, 197803, 197802, 197801, 197712, 197711, 197710, 197709, 197708, 197707, 197706, 197705, 197704
Temporal Selection (21)	197703, 197702, 197701, 197612, 197611, 197610, 197609, 197608, 197607, 197606, 197605, 197604, 197603, 197602, 197601, 197512, 197511, 197510, 197509, 197508, 197507, 197506, 197505, 197504, 197503
Temporal Selection (22)	197502, 197501, 197412, 197411, 197410, 197409, 197408, 197407, 197406, 197405, 197404, 197403, 197402, 197401, 197312, 197311, 197310, 197309, 197308, 197307, 197306, 197305, 197304, 197303, 197302
Temporal Selection (23)	197301, 197212, 197211, 197210, 197209, 197208, 197207, 197206, 197205, 197204, 197203, 197202, 197201, 197112, 197111, 197110, 197109, 197108, 197107, 197106, 197105, 197104, 197103, 197102, 197101
Temporal Selection (24)	197012, 197011, 197010, 197009, 197008, 197007, 197006, 197005, 197004, 197003, 197002, 197001, 196912, 196911, 196910, 196909, 196908, 196907, 196906, 196905, 196904, 196903, 196902, 196901, 196812

Temporal Selection (25)	196811, 196810, 196809, 196808, 196807, 196806, 196805, 196804, 196803, 196802, 196801, 196712, 196711, 196710, 196709, 196708, 196707, 196706, 196705, 196704, 196703, 196702, 196701, 196612, 196611
Temporal Selection (26)	196610, 196609, 196608, 196607, 196606, 196605, 196604, 196603, 196602, 196601, 196512, 196511, 196510, 196509, 196508, 196507, 196506, 196505, 196504, 196503, 196502, 196501, 196412, 196411, 196410
Temporal Selection (27)	196409, 196408, 196407, 196406, 196405, 196404, 196403, 196402, 196401, 196312, 196311, 196310, 196309, 196308, 196307, 196306, 196305, 196304, 196303, 196302, 196301, 196212, 196211, 196210, 196209
Temporal Selection (28)	196208, 196207, 196206, 196205, 196204, 196203, 196202, 196201, 196112, 196111, 196110, 196109, 196108, 196107, 196106, 196105, 196104, 196103, 196102, 196101, 196012, 196011, 196010, 196009, 196008
Temporal Selection (29)	196007, 196006, 196005, 196004, 196003, 196002, 196001, 195912, 195911, 195910, 195909, 195908, 195907, 195906, 195905, 195904, 195903, 195902, 195901, 195812, 195811, 195810, 195809, 195808, 195807
Temporal Selection (30)	195806, 195805, 195804, 195803, 195802, 195801, 195712, 195711, 195710, 195709, 195708, 195707, 195706, 195705, 195704, 195703, 195702, 195701, 195612, 195611, 195610, 195609, 195608, 195607, 195606
Temporal Selection (31)	195605, 195604, 195603, 195602, 195601, 195512, 195511, 195510, 195509, 195508, 195507, 195506, 195505, 195504, 195503, 195502, 195501, 195412, 195411, 195410, 195409, 195408, 195407, 195406, 195405
Temporal Selection (32)	195404, 195403, 195402, 195401, 195312, 195311, 195310, 195309, 195308, 195307, 195306, 195305, 195304, 195303, 195302, 195301, 195212, 195211, 195210, 195209, 195208, 195207, 195206, 195205, 195204
Temporal Selection (33)	195203, 195202, 195201, 195112, 195111, 195110, 195109, 195108, 195107, 195106, 195105, 195104, 195103, 195102, 195101, 195012, 195011, 195010, 195009, 195008, 195007, 195006, 195005, 195004, 195003

Temporal Selection (34)	195002, 195001, 194912, 194911, 194910, 194909, 194908, 194907, 194906, 194905, 194904, 194903, 194902, 194901, 194812, 194811, 194810, 194809, 194808, 194807, 194806, 194805, 194804, 194803, 194802
Temporal Selection (35)	194801, 194712, 194711, 194710, 194709, 194708, 194707, 194706, 194705, 194704, 194703, 194702, 194701, 194612, 194611, 194610, 194609, 194608, 194607, 194606, 194605, 194604, 194603, 194602, 194601
Temporal Selection (36)	194512, 194511, 194510, 194509, 194508, 194507, 194506, 194505, 194504, 194503, 194502, 194501, 194412, 194411, 194410, 194409, 194408, 194407, 194406, 194405, 194404, 194403, 194402, 194401, 194312
Temporal Selection (37)	194311, 194310, 194309, 194308, 194307, 194306, 194305, 194304, 194303, 194302, 194301, 194212, 194211, 194210, 194209, 194208, 194207, 194206, 194205, 194204, 194203, 194202, 194201, 194112, 194111
Temporal Selection (38)	194110, 194109, 194108, 194107, 194106, 194105, 194104, 194103, 194102, 194101, 194012, 194011, 194010, 194009, 194008, 194007, 194006, 194005, 194004, 194003, 194002, 194001, 193912, 193911, 193910
Temporal Selection (39)	193909, 193908, 193907, 193906, 193905, 193904, 193903, 193902, 193901, 193812, 193811, 193810, 193809, 193808, 193807, 193806, 193805, 193804, 193803, 193802, 193801, 193712, 193711, 193710, 193709
Temporal Selection (40)	193708, 193707, 193706, 193705, 193704, 193703, 193702, 193701, 193612, 193611, 193610, 193609, 193608, 193607, 193606, 193605, 193604, 193603, 193602, 193601, 193512, 193511, 193510, 193509, 193508
Temporal Selection (41)	193507, 193506, 193505, 193504, 193503, 193502, 193501, 193412, 193411, 193410, 193409, 193408, 193407, 193406, 193405, 193404, 193403, 193402, 193401, 193312, 193311, 193310, 193309, 193308, 193307
Temporal Selection (42)	193306, 193305, 193304, 193303, 193302, 193301, 193212, 193211, 193210, 193209, 193208, 193207, 193206, 193205, 193204, 193203, 193202, 193201, 193112, 193111, 193110, 193109, 193108, 193107, 193106

Temporal Selection (43)	193105, 193104, 193103, 193102, 193101, 193012, 193011, 193010, 193009, 193008, 193007, 193006, 193005, 193004, 193003, 193002, 193001, 192912, 192911, 192910, 192909, 192908, 192907, 192906, 192905
Temporal Selection (44)	192904, 192903, 192902, 192901, 192812, 192811, 192810, 192809, 192808, 192807, 192806, 192805, 192804, 192803, 192802, 192801, 192712, 192711, 192710, 192709, 192708, 192707, 192706, 192705, 192704
Temporal Selection (45)	192703, 192702, 192701, 192612, 192611, 192610, 192609, 192608, 192607, 192606, 192605, 192604, 192603, 192602, 192601, 192512, 192511, 192510, 192509, 192508, 192507, 192506, 192505, 192504, 192503
Temporal Selection (46)	192502, 192501, 192412, 192411, 192410, 192409, 192408, 192407, 192406, 192405, 192404, 192403, 192402, 192401, 192312, 192311, 192310, 192309, 192308, 192307, 192306, 192305, 192304, 192303, 192302
Temporal Selection (47)	192301, 192212, 192211, 192210, 192209, 192208, 192207, 192206, 192205, 192204, 192203, 192202, 192201, 192112, 192111, 192110, 192109, 192108, 192107, 192106, 192105, 192104, 192103, 192102, 192101
Temporal Selection (48)	192012, 192011, 192010, 192009, 192008, 192007, 192006, 192005, 192004, 192003, 192002, 192001, 191912, 191911, 191910, 191909, 191908, 191907, 191906, 191905, 191904, 191903, 191902, 191901, 191812
Temporal Selection (49)	191811, 191810, 191809, 191808, 191807, 191806, 191805, 191804, 191803, 191802, 191801, 191712, 191711, 191710, 191709, 191708, 191707, 191706, 191705, 191704, 191703, 191702, 191701, 191612, 191611
Temporal Selection (50)	191610, 191609, 191608, 191607, 191606, 191605, 191604, 191603, 191602, 191601, 191512, 191511, 191510, 191509, 191508, 191507, 191506, 191505, 191504, 191503, 191502, 191501, 191412, 191411, 191410
Temporal Selection (51)	191409, 191408, 191407, 191406, 191405, 191404, 191403, 191402, 191401, 191312, 191311, 191310, 191309, 191308, 191307, 191306, 191305, 191304, 191303, 191302, 191301, 191212, 191211, 191210, 191209

Temporal Selection (52)	191208, 191207, 191206, 191205, 191204, 191203, 191202, 191201, 191112, 191111, 191110, 191109, 191108, 191107, 191106, 191105, 191104, 191103, 191102, 191101, 191012, 191011, 191010, 191009, 191008
Temporal Selection (53)	191007, 191006, 191005, 191004, 191003, 191002, 191001, 190912, 190911, 190910, 190909, 190908, 190907, 190906, 190905, 190904, 190903, 190902, 190901, 190812, 190811, 190810, 190809, 190808, 190807
Temporal Selection (54)	190806, 190805, 190804, 190803, 190802, 190801, 190712, 190711, 190710, 190709, 190708, 190707, 190706, 190705, 190704, 190703, 190702, 190701, 190612, 190611, 190610, 190609, 190608, 190607, 190606
Temporal Selection (55)	190605, 190604, 190603, 190602, 190601, 190512, 190511, 190510, 190509, 190508, 190507, 190506, 190505, 190504, 190503, 190502, 190501, 190412, 190411, 190410, 190409, 190408, 190407, 190406, 190405
Temporal Selection (56)	190404, 190403, 190402, 190401, 190312, 190311, 190310, 190309, 190308, 190307, 190306, 190305, 190304, 190303, 190302, 190301, 190212, 190211, 190210, 190209, 190208, 190207, 190206, 190205, 190204
Temporal Selection (57)	190203, 190202, 190201, 190112, 190111, 190110, 190109, 190108, 190107, 190106, 190105, 190104, 190103, 190102, 190101
Extract Types Selected	max (maximum precipitation value per unit of analysis), mean (average precipitation value per unit of analysis), min (minimum precipitation value per unit of analysis)
Description	Montly precipitation from Climate Research Unit (CRU) in millimeters. Version 4.05
Details	Created by extracting monthly precipitation data from CRU
Bounding Box	[[[-180.0, 90.0], [-180.0, -90.0], [180.0, -90.0], [180.0, 90.0], [-180.0, 90.0]]]
Date Added	2021-09-23
Date Updated	2021-09-23
Source Name	Climate Research Unit
Source Link	<a href="https://crudata.uea.ac.uk/cru/data/hrg/">https://crudata.uea.ac.uk/cru/data/hrg/</a>
Citation	Harris, I., Osborn, T.J., Jones, P. et al. Version 4 of the CRU TS monthly high-resolution gridded multivariate climate dataset. Sci Data 7, 109 (2020). <a href="https://doi.org/10.1038/s41597-020-0453-3">https://doi.org/10.1038/s41597-020-0453-3</a>

Variable Description	precipitation in millimeters
Resolution	0.5
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 GeoQuery 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 GeoQuery 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).

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