

ECA Region - Cities in Europe and Central Asia Database 1992 - 2012

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Sampling

No content available

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
2015-04-01	2016-09-01	N/A

Data Collection Mode

Other [oth]

DATA COLLECTION NOTES

Data collection was done through work with the World Bank economists and statistical offices in each of the countries (for the demographic data), and the Geospatial Operations Support Team (GOST) of the World Bank (for the spatial data, nighttime lights).

Global Nighttime Lights (NTL) data was recorded by the Defense Meteorological Satellite Program (DMSP), in the National Geophysical Data Center (NGDC), NOAA. The data was collected using polar orbiting satellites that provide full cover of the globe twice a day. The satellites have an Operation Linescan system which allows them to detect low levels of visible-near infrared radiance at night. With this data, it is possible to detect clouds illuminated by moonlight, lights from cities and towns, industrial sites, gas flares, fires, lightning, and aurora.

Data Processing

No content available

Data Appraisal

No content available

File Description

Variable List

City Database

Content

Cases 5549

Variable(s) 120

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	Name	Label	Type	Format	Question
V171	country	country	discrete	character	
V172	uniqueid	unique city identifier	discrete	character	
V173	nuts1	NUTS1	discrete	character	
V174	nuts2	NUTS2	discrete	character	
V175	nuts3	NUTS3	discrete	character	
V176	lat	Lat	contin	numeric	
V177	lng	Lng	contin	numeric	
V178	city	City	discrete	character	
V179	monotowns	identifier for monotowns in Russia	discrete	numeric	
V180	year1	year corresponding to cen_1	discrete	numeric	
V181	year2	year corresponding to cen_2	discrete	numeric	
V182	year3	year corresponding to cen_3	discrete	numeric	
V183	cen_1	population in year1	contin	numeric	
V184	cen_2	population in year2	contin	numeric	
V185	cen_3	population in year3	contin	numeric	
V186	agglomerationtype_1	single city or agg 1996	discrete	character	
V187	agglomerationtype_2	single city or agg 2000	discrete	character	
V188	agglomerationtype_3	single city or agg 2010	discrete	character	
V189	agglomerationmaincity_1	agg main city 1996	discrete	character	
V190	agglomerationmaincity_2	agg main city 2000	discrete	character	
V191	agglomerationmaincity_3	agg main city 2010	discrete	character	
V192	agglpop1	agg pop cen_1 in 2010	contin	numeric	
V193	agglpop2	agg pop cen_2 in 2010	contin	numeric	
V194	agglpop3	agg pop cen_3 in 2010	contin	numeric	
V195	agglomeration_3	flag agg main city 2010	discrete	numeric	
V196	agglomeration_2	flag agg main city 2000	discrete	numeric	
V197	agglomeration_1	flag agg main city 1996	discrete	numeric	
V198	area_1	area of urb ext 1996	contin	numeric	

ID	Name	Label	Type	Format	Question
V199	area_2	area of urb ext 2000	contin	numeric	
V200	area_3	area of urb ext 2010	contin	numeric	
V201	rc1996_t0	ttl bright 1996 rc ntl for urb extent in 1996	contin	numeric	
V202	rc2000_t0	ttl bright 2000 rc ntl for urb extent in 2000	contin	numeric	
V203	rc2010_t1	ttl bright 2010 rc ntl for urb extent in 2010	contin	numeric	
V204	ntlchgcorr1_3	chg bright urb extent corr exist light expanded area (1996-2010)	contin	numeric	
V205	ntlchgcorr2_3	chg bright urb extent corr exist light expanded area (2000-2010)	contin	numeric	
V206	intensive1_3	chg bright urb core (1996-2010)	contin	numeric	
V207	intensive2_3	chg bright urb core (2000-2010)	contin	numeric	
V208	extensive1_3	chg bright new area of urb ext 96-10	contin	numeric	
V209	extensive2_3	chg bright new area of urb ext 00-10	contin	numeric	
V210	extencorr1_3	chg bright new area urb ext corr exist light expanded area 96-10	contin	numeric	
V211	extencorr2_3	chg bright new area urb ext corr exist light expanded area 00-10	contin	numeric	
V212	ntl1992	raw1992	contin	numeric	
V213	ntl1993	raw1993	contin	numeric	
V214	ntl1994	raw1994	contin	numeric	
V215	ntl1995	raw1995	contin	numeric	
V216	ntl1996	raw1996	contin	numeric	
V217	ntl1997	raw1997	contin	numeric	
V218	ntl1998	raw1998	contin	numeric	
V219	ntl1999	raw1999	contin	numeric	
V220	ntl2000	raw2000	contin	numeric	
V221	ntl2001	raw2001	contin	numeric	
V222	ntl2002	raw2002	contin	numeric	
V223	ntl2003	raw2003	contin	numeric	
V224	ntl2004	raw2004	contin	numeric	
V225	ntl2005	raw2005	contin	numeric	
V226	ntl2006	raw2006	contin	numeric	
V227	ntl2007	raw2007	contin	numeric	
V228	ntl2008	raw2008	contin	numeric	
V229	ntl2009	raw2009	contin	numeric	
V230	ntl2010	raw2010	contin	numeric	
V231	ntl2011	raw2011	contin	numeric	
V232	ntl2012	raw2012	contin	numeric	
V233	rc1996	rc1996	contin	numeric	
V234	rc1999	rc1999	contin	numeric	
V235	rc2000	rc2000	contin	numeric	
V236	rc2004	rc2004	contin	numeric	
V237	rc2002	rc2002	contin	numeric	
V238	rc2005	rc2005	contin	numeric	

ID	Name	Label	Type	Format	Question
V239	rc2010	rc2010	contin	numeric	
V240	typology1a	found, appear, disappear, missed in 2010 1996-2010	discrete	character	
V241	typology1b	found, appear, disappear, missed in 2010 2000-2010	discrete	character	
V242	poptype1	city size classification in cen_1	discrete	character	
V243	npoptype10_1	Small Town (<10k)	discrete	numeric	
V244	npoptype20_1	Mid size towns (10k - 20k)	discrete	numeric	
V245	npoptype50_1	Large towns (20k - 50k)	discrete	numeric	
V246	npoptype100_1	Small cities (50k - 100k)	discrete	numeric	
V247	npoptype500_1	Mid size cities (100k - 500k)	discrete	numeric	
V248	npoptype500p_1	Major cities (> 500k)	discrete	numeric	
V249	poptype2	city size classification in cen_2	discrete	character	
V250	npoptype10_2	Small Town (<10k)	discrete	numeric	
V251	npoptype20_2	Mid size towns (10k - 20k)	discrete	numeric	
V252	npoptype50_2	Large towns (20k - 50k)	discrete	numeric	
V253	npoptype100_2	Small cities (50k - 100k)	discrete	numeric	
V254	npoptype500_2	Mid size cities (100k - 500k)	discrete	numeric	
V255	npoptype500p_2	Major cities (> 500k)	discrete	numeric	
V256	poptype3	city size classification in cen_3	discrete	character	
V257	npoptype10_3	Small Town (<10k)	discrete	numeric	
V258	npoptype20_3	Mid size towns (10k - 20k)	discrete	numeric	
V259	npoptype50_3	Large towns (20k - 50k)	discrete	numeric	
V260	npoptype100_3	Small cities (50k - 100k)	discrete	numeric	
V261	npoptype500_3	Mid size cities (100k - 500k)	discrete	numeric	
V262	npoptype500p_3	Major cities (> 500k)	discrete	numeric	
V263	metromunicipality2012	MetroMunicipality2012	discrete	numeric	
V264	aggl_d1	dummy 1996: 1:singlecity 2:surroundingcity 3:maincity	discrete	numeric	
V265	aggl_d2	dummy 2000: 1:singlecity 2:surroundingcity 3:maincity	discrete	numeric	
V266	aggl_d3	dummy 2010: 1:singlecity 2:surroundingcity 3:maincity	discrete	numeric	
V267	periods1_3	# of years btwn cen_1 & cen_3	discrete	numeric	
V268	periods2_3	# of years btwn cen_2 & cen_3	discrete	numeric	
V269	periods1_2	# of years btwn cen_1 & cen_2	discrete	numeric	
V270	class_a	typology2 classification 96-10	discrete	numeric	
V271	class_b	typology2 classification 00-10	discrete	numeric	
V272	ndvi	location fundamental: health of vegetation proxy for land usability	contin	numeric	
V273	jantemp	location fundamental: average minimum January temp	contin	numeric	
V274	annprecip	location fundamental: total annual precipitation	contin	numeric	
V275	pcntforest	location fundamental: precentage forest cover	contin	numeric	
V276	dis_coast	distance to nearest coast in meters	contin	numeric	
V277	dis_border	distance to nearest interenational border in meter	contin	numeric	

ID	Name	Label	Type	Format	Question
V278	closest_border	closest border	discrete	character	
V279	mp_96	lmkt potential NL 1	contin	numeric	
V280	mp_00	lmkt potential NL 2	contin	numeric	
V281	mp_10	lmkt potential NL 3	contin	numeric	
V282	mpp_1	lmkt potential pop 1	contin	numeric	
V283	mpp_2	lmkt potential pop 2	contin	numeric	
V284	mpp_3	lmkt potential pop 3	contin	numeric	
V285	mpg_1_2	Change in mp NL periods 1-2	contin	numeric	
V286	mpg_2_3	Change in mp NL periods 2-3	contin	numeric	
V287	mpg_1_3	Change in mp NL periods 1-3	contin	numeric	
V288	mppg_1_2	Change in mp pop periods 1-2	contin	numeric	
V289	mppg_2_3	Change in mp pop periods 2-3	contin	numeric	
V290	mppg_1_3	Change in mp pop periods 1-3	contin	numeric	

country (country)

File: City Database

Overview

Type: Discrete
Format: character
Width: 41

Valid cases: 5549
Invalid: 0

Description

Country name

unique city identifier (uniqueid)

File: City Database

Overview

Type: Discrete
Format: character
Width: 13

Valid cases: 5548
Invalid: 0

NUTS1 (nuts1)

File: City Database

Overview

Type: Discrete
Format: character
Width: 22

Valid cases: 1014
Invalid: 0

NUTS2 (nuts2)

File: City Database

Overview

Type: Discrete
Format: character
Width: 37

Valid cases: 1845
Invalid: 0

NUTS3 (nuts3)

File: City Database

Overview

Type: Discrete
Format: character
Width: 27

Valid cases: 2310
Invalid: 0

Lat (lat)

File: City Database

Overview

Lat (lat)

File: City Database

Type: Continuous
 Format: numeric
 Width: 9
 Decimals: 0
 Range: 35.9025-69.692947

Valid cases: 5548
 Invalid: 1
 Minimum: 35.9
 Maximum: 69.7

Description

Latitude of city

Lng (lng)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 0
 Range: -7.30934-177.496827

Valid cases: 5548
 Invalid: 1
 Minimum: -7.3
 Maximum: 177.5

Description

Longitude of city

City (city)

File: City Database

Overview

Type: Discrete
 Format: character
 Width: 39

Valid cases: 5549
 Invalid: 0

Description

City Name

identifier for monotowns in Russia (monotowns)

File: City Database

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-1

Valid cases: 224
 Invalid: 5325

year corresponding to cen_1 (year1)

File: City Database

Overview

Type: Discrete
 Format: numeric
 Width: 4
 Decimals: 0
 Range: 1989-1992

Valid cases: 2878
 Invalid: 2671

year corresponding to cen_1 (year1)

File: City Database

Description

Year corresponding to census 1 (cen_1)

year corresponding to cen_2 (year2)

File: City Database

Overview

Type: Discrete	Valid cases: 5549
Format: numeric	Invalid: 0
Width: 4	
Decimals: 0	
Range: 1999-2003	

Description

Year corresponding to census 2 (cen_2)

year corresponding to cen_3 (year3)

File: City Database

Overview

Type: Discrete	Valid cases: 5549
Format: numeric	Invalid: 0
Width: 4	
Decimals: 0	
Range: 2010-2015	

Description

Year corresponding to census3 (cen_3)

population in year1 (cen_1)

File: City Database

Overview

Type: Continuous	Valid cases: 2712
Format: numeric	Invalid: 2837
Width: 7	Minimum: 0
Decimals: 0	Maximum: 8677177
Range: 0-8677177	

population in year2 (cen_2)

File: City Database

Overview

Type: Continuous	Valid cases: 5523
Format: numeric	Invalid: 26
Width: 8	Minimum: 151
Decimals: 0	Maximum: 10126424
Range: 151-10126424	

population in year3 (cen_3)

File: City Database

Overview

Type: Continuous	Valid cases: 5512
Format: numeric	Invalid: 37
Width: 8	Minimum: 100
Decimals: 0	Maximum: 13710512
Range: 100-13710512	

single city or agg 1996 (agglomerationtype_1)

File: City Database

Overview

Type: Discrete	Valid cases: 3948
Format: character	Invalid: 0
Width: 13	

Description

Single city or agglomeration in 1996

single city or agg 2000 (agglomerationtype_2)

File: City Database

Overview

Type: Discrete	Valid cases: 3631
Format: character	Invalid: 0
Width: 13	

Description

Single city or agglomeration in 2000

single city or agg 2010 (agglomerationtype_3)

File: City Database

Overview

Type: Discrete	Valid cases: 4867
Format: character	Invalid: 0
Width: 13	

Description

Single city or agglomeration in 2010

agg main city 1996 (agglomerationmaincity_1)

File: City Database

Overview

Type: Discrete	Valid cases: 1493
Format: character	Invalid: 0
Width: 34	

Description

Agglomeration main city in 1996 (name of largest city in agglomeration identifier)

agg main city 2000 (agglomerationmaincity_2)

File: City Database

Overview

Type: Discrete	Valid cases: 1378
Format: character	Invalid: 0
Width: 34	

Description

Agglomeration main city in 2000 (name of largest city in agglomeration identifier)

agg main city 2010 (agglomerationmaincity_3)

File: City Database

Overview

Type: Discrete	Valid cases: 1968
Format: character	Invalid: 0
Width: 37	

Description

Agglomeration main city in 2010 (name of largest city in agglomeration identifier)

agg pop cen_1 in 2010 (agglpop1)

File: City Database

Overview

Type: Continuous	Valid cases: 911
Format: numeric	Invalid: 4638
Width: 8	Minimum: 6219
Decimals: 0	Maximum: 11930703
Range: 6219-11930703	

Description

Agglomeration population in cen_1 based on 2010 designation of agglomeration

agg pop cen_2 in 2010 (agglpop2)

File: City Database

Overview

Type: Continuous	Valid cases: 1966
Format: numeric	Invalid: 3583
Width: 8	Minimum: 9251
Decimals: 0	Maximum: 21740360
Range: 9251-21740360	

Description

Agglomeration population in cen_2 based on 2010 designation of agglomeration

agg pop cen_3 in 2010 (agglpop3)

File: City Database

Overview

agg pop cen_3 in 2010 (agglpop3)

File: City Database

Type: Continuous
 Format: numeric
 Width: 8
 Decimals: 0
 Range: 2600-21646636

Valid cases: 1966
 Invalid: 3583
 Minimum: 2600
 Maximum: 21646636

Description

Agglomeration population in cen_3 based on 2010 designation of agglomeration

flag agg main city 2010 (agglomeration_3)

File: City Database

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-1

Valid cases: 352
 Invalid: 5197

Description

Flag for agglomeration main city in 2010

flag agg main city 2000 (agglomeration_2)

File: City Database

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-1

Valid cases: 414
 Invalid: 5135

Description

Flag for agglomeration main city in 2000

flag agg main city 1996 (agglomeration_1)

File: City Database

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-1

Valid cases: 405
 Invalid: 5144

Description

Flag for agglomeration main city in 1996

area of urb ext 1996 (area_1)

File: City Database

Overview

area of urb ext 1996 (area_1)

File: City Database

Type: Continuous
 Format: numeric
 Width: 17
 Decimals: 0
 Range: 0.474300384521484-19678.80078125

Valid cases: 3771
 Invalid: 1778
 Minimum: 0.5
 Maximum: 19678.8

Description

Area of urban extent in 1996

area of urb ext 2000 (area_2)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 17
 Decimals: 0
 Range: 0.460920333862305-13628.900390625

Valid cases: 3519
 Invalid: 2030
 Minimum: 0.5
 Maximum: 13628.9

Description

Area of urban extent in 2000

area of urb ext 2010 (area_3)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 17
 Decimals: 0
 Range: 0.511054992675781-31425.30078125

Valid cases: 4056
 Invalid: 1493
 Minimum: 0.5
 Maximum: 31425.3

Description

Area of urban extent in 2010

ttl bright 1996 rc ntl for urb extent in 1996 (rc1996_t0)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 7
 Decimals: 0
 Range: 0-2319560

Valid cases: 4183
 Invalid: 1366
 Minimum: 0
 Maximum: 2319560

Description

Total brightness 1996 radiance calibrated (rc) NTL for urban extent in 1996

ttl bright 2000 rc ntl for urb extent in 2000 (rc2000_t0)

File: City Database

Overview

ttl bright 2000 rc ntl for urb extent in 2000 (rc2000_t0)

File: City Database

Type: Continuous
 Format: numeric
 Width: 7
 Decimals: 0
 Range: 0-1954480

Valid cases: 4160
 Invalid: 1389
 Minimum: 0
 Maximum: 1954480

Description

Total brightness 2000 radiance calibrated (rc) NTL for urban extent in 2000

ttl bright 2010 rc ntl for urb extent in 2010 (rc2010_t1)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 7
 Decimals: 0
 Range: 0-3662770

Valid cases: 4183
 Invalid: 1366
 Minimum: 0
 Maximum: 3662770

Description

Total brightness 2010 radiance calibrated (rc) NTL for urban extent in 2010

chg bright urb extent corr exist light expanded area (1996-2010)
(ntlchgcorr1_3)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 7
 Decimals: 0
 Range: -226768-1469760

Valid cases: 4034
 Invalid: 1515
 Minimum: -226768
 Maximum: 1469760

Description

Change in brightness of urban extent corrected for existing light in expanded area (1996-2010)

chg bright urb extent corr exist light expanded area (2000-2010)
(ntlchgcorr2_3)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 7
 Decimals: 0
 Range: -226768-1469760

Valid cases: 4012
 Invalid: 1537
 Minimum: -226768
 Maximum: 1469760

Description

Change in brightness of urban extent corrected for existing light in expanded area (2000-2010)

chg bright urb core (1996-2010) (intensive1_3)

File: City Database

Overview

Type: Continuous	Valid cases: 3810
Format: numeric	Invalid: 1739
Width: 7	Minimum: -264247
Decimals: 0	Maximum: 1311940
Range: -264247-1311940	

Description

Change of brightness in urban core (1996-2010)

chg bright urb core (2000-2010) (intensive2_3)

File: City Database

Overview

Type: Continuous	Valid cases: 3506
Format: numeric	Invalid: 2043
Width: 7	Minimum: -241223
Decimals: 0	Maximum: 1291770
Range: -241223-1291770	

Description

Change of brightness in urban core (2000-2010)

chg bright new area of urb ext 96-10 (extensive1_3)

File: City Database

Overview

Type: Continuous	Valid cases: 4034
Format: numeric	Invalid: 1515
Width: 8	Minimum: -2864410
Decimals: 0	Maximum: 724568
Range: -2864410-724568	

Description

Change of brightness in newly created area of urban extent (1996-2010)

chg bright new area of urb ext 00-10 (extensive2_3)

File: City Database

Overview

Type: Continuous	Valid cases: 4012
Format: numeric	Invalid: 1537
Width: 15	Minimum: -53546.2
Decimals: 0	Maximum: 1231180
Range: -53546.19921875-1231180	

Description

Change of brightness in newly created area of urban extent (2000-2010)

chg bright new area urb ext corr exist light expanded area 96-10 (extencorr1_3)

File: City Database

Overview

Type: Continuous	Valid cases: 4034
Format: numeric	Invalid: 1515
Width: 8	Minimum: -1268050
Decimals: 0	Maximum: 320841
Range: -1268050-320841	

Description

Change of brightness in newly created area of urban extent corrected for existing light in expanded area (1996-2010)

chg bright new area urb ext corr exist light expanded area 00-10 (extencorr2_3)

File: City Database

Overview

Type: Continuous	Valid cases: 4012
Format: numeric	Invalid: 1537
Width: 15	Minimum: -25215.3
Decimals: 0	Maximum: 462366
Range: -25215.30078125-462366	

Description

Change of brightness in newly created area of urban extent corrected for existing light in expanded area (2000-2010)

raw1992 (ntl1992)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1920670
Range: 0-1920670	

Description

Total brightness 1992 raw

raw1993 (ntl1993)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1760030
Range: 0-1760030	

Description

Total brightness 1993 raw

raw1994 (ntl1994)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1873710
Range: 0-1873710	

Description

Total brightness 1994 raw

raw1995 (ntl1995)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 7
Decimals: 0	Maximum: 1893420
Range: 7-1893420	

Description

Total brightness 1995 raw

raw1996 (ntl1996)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1887660
Range: 0-1887660	

Description

Total brightness 1996 raw

raw1997 (ntl1997)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1977530
Range: 0-1977530	

Description

Total brightness 1997 raw

raw1998 (ntl1998)

File: City Database

raw1998 (ntl1998)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1953600
Range: 0-1953600	

Description

Total brightness 1998 raw

raw1999 (ntl1999)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1934300
Range: 0-1934300	

Description

Total brightness 1999 raw

raw2000 (ntl2000)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1739120
Range: 0-1739120	

Description

Total brightness 2000 raw

raw2001 (ntl2001)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1868930
Range: 0-1868930	

Description

Total brightness 2001 raw

raw2002 (ntl2002)

File: City Database

raw2002 (ntl2002)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 5
Decimals: 0	Maximum: 1795310
Range: 5-1795310	

Description

Total brightness 2002 raw

raw2003 (ntl2003)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1747990
Range: 0-1747990	

Description

Total brightness 2003 raw

raw2004 (ntl2004)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 6
Decimals: 0	Maximum: 1643810
Range: 6-1643810	

Description

Total brightness 2004 raw

raw2005 (ntl2005)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1740890
Range: 0-1740890	

Description

Total brightness 2005 raw

raw2006 (ntl2006)

File: City Database

raw2006 (ntl2006)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1712610
Range: 0-1712610	

Description

Total brightness 2006 raw

raw2007 (ntl2007)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1680560
Range: 0-1680560	

Description

Total brightness 2007 raw

raw2008 (ntl2008)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1795530
Range: 0-1795530	

Description

Total brightness 2008 raw

raw2009 (ntl2009)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 1781370
Range: 0-1781370	

Description

Total brightness 2009 raw

raw2010 (ntl2010)

File: City Database

raw2010 (ntl2010)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 5
Decimals: 0	Maximum: 2203570
Range: 5-2203570	

Description

Total brightness 2010 raw

raw2011 (ntl2011)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 5
Decimals: 0	Maximum: 1695780
Range: 5-1695780	

Description

Total brightness 2011 raw

raw2012 (ntl2012)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 6
Decimals: 0	Maximum: 1842680
Range: 6-1842680	

Description

Total brightness 2012 raw

rc1996 (rc1996)

File: City Database

Overview

Type: Continuous	Valid cases: 4134
Format: numeric	Invalid: 1415
Width: 7	Minimum: 0
Decimals: 0	Maximum: 2723290
Range: 0-2723290	

Description

Total brightness radiance calibrated (rc) 1996

rc1999 (rc1999)

File: City Database

rc1999 (rc1999)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 2860100
Range: 0-2860100	

Description

Total brightness radiance calibrated (rc) 1999

rc2000 (rc2000)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 2351370
Range: 0-2351370	

Description

Total brightness radiance calibrated (rc) 2000

rc2004 (rc2004)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 16	Minimum: 6.1
Decimals: 0	Maximum: 2442930
Range: 6.08698987960815-2442930	

Description

Total brightness radiance calibrated (rc) 2004

rc2002 (rc2002)

File: City Database

Overview

Type: Continuous	Valid cases: 4056
Format: numeric	Invalid: 1493
Width: 7	Minimum: 0
Decimals: 0	Maximum: 3069440
Range: 0-3069440	

Description

Total brightness radiance calibrated (rc) 2002

rc2005 (rc2005)

File: City Database

rc2005 (rc2005)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 16
 Decimals: 0
 Range: 5.51298999786377-3478790

Valid cases: 4056
 Invalid: 1493
 Minimum: 5.5
 Maximum: 3478790

Description

Total brightness radiance calibrated (rc) 2005

rc2010 (rc2010)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 16
 Decimals: 0
 Range: 8.52581024169922-3662770

Valid cases: 4056
 Invalid: 1493
 Minimum: 8.5
 Maximum: 3662770

Description

Total brightness radiance calibrated (rc) 2010

found, appear, disappear, missed in 2010 1996-2010 (typology1a)

File: City Database

Overview

Type: Discrete
 Format: character
 Width: 11

Valid cases: 5549
 Invalid: 0

found, appear, disappear, missed in 2010 2000-2010 (typology1b)

File: City Database

Overview

Type: Discrete
 Format: character
 Width: 9

Valid cases: 5549
 Invalid: 0

city size classification in cen_1 (poptype1)

File: City Database

Overview

Type: Discrete
 Format: character
 Width: 29

Valid cases: 2712
 Invalid: 0

Small Town (<10k) (npoptype10_1)

File: City Database

Overview

Type: Discrete	Valid cases: 399
Format: numeric	Invalid: 5150
Width: 1	
Decimals: 0	
Range: 1-1	

Mid size towns (10k - 20k) (npoptype20_1)

File: City Database

Overview

Type: Discrete	Valid cases: 669
Format: numeric	Invalid: 4880
Width: 1	
Decimals: 0	
Range: 1-1	

Large towns (20k - 50k) (npoptype50_1)

File: City Database

Overview

Type: Discrete	Valid cases: 915
Format: numeric	Invalid: 4634
Width: 1	
Decimals: 0	
Range: 1-1	

Small cities (50k - 100k) (npoptype100_1)

File: City Database

Overview

Type: Discrete	Valid cases: 377
Format: numeric	Invalid: 5172
Width: 1	
Decimals: 0	
Range: 1-1	

Mid size cities (100k - 500k) (npoptype500_1)

File: City Database

Overview

Type: Discrete	Valid cases: 297
Format: numeric	Invalid: 5252
Width: 1	
Decimals: 0	
Range: 1-1	

Major cities (> 500k) (npoptype500p_1)

File: City Database

Overview

Type: Discrete	Valid cases: 2892
Format: numeric	Invalid: 2657
Width: 1	
Decimals: 0	
Range: 1-1	

city size classification in cen_2 (poptype2)

File: City Database

Overview

Type: Discrete	Valid cases: 5521
Format: character	Invalid: 0
Width: 29	

Small Town (<10k) (npoptype10_2)

File: City Database

Overview

Type: Discrete	Valid cases: 958
Format: numeric	Invalid: 4591
Width: 1	
Decimals: 0	
Range: 1-1	

Mid size towns (10k - 20k) (npoptype20_2)

File: City Database

Overview

Type: Discrete	Valid cases: 1492
Format: numeric	Invalid: 4057
Width: 1	
Decimals: 0	
Range: 1-1	

Large towns (20k - 50k) (npoptype50_2)

File: City Database

Overview

Type: Discrete	Valid cases: 1841
Format: numeric	Invalid: 3708
Width: 1	
Decimals: 0	
Range: 1-1	

Small cities (50k - 100k) (npoptype100_2)

File: City Database

Small cities (50k - 100k) (npoptype100_2)

File: City Database

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 662
Invalid: 4887

Mid size cities (100k - 500k) (npoptype500_2)

File: City Database

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 485
Invalid: 5064

Major cities (> 500k) (npoptype500p_2)

File: City Database

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 111
Invalid: 5438

city size classification in cen_3 (poptype3)

File: City Database

Overview

Type: Discrete
Format: character
Width: 29

Valid cases: 5512
Invalid: 0

Small Town (<10k) (npoptype10_3)

File: City Database

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 1053
Invalid: 4496

Mid size towns (10k - 20k) (npoptype20_3)

File: City Database

Mid size towns (10k - 20k) (npoptype20_3)

File: City Database

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 1423
Invalid: 4126

Large towns (20k - 50k) (npoptype50_3)

File: City Database

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 1813
Invalid: 3736

Small cities (50k - 100k) (npoptype100_3)

File: City Database

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 640
Invalid: 4909

Mid size cities (100k - 500k) (npoptype500_3)

File: City Database

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 482
Invalid: 5067

Major cities (> 500k) (npoptype500p_3)

File: City Database

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-1

Valid cases: 138
Invalid: 5411

MetroMunicipality2012 (metromunicipality2012)

File: City Database

Overview

Type: Discrete	Valid cases: 15
Format: numeric	Invalid: 5534
Width: 1	
Decimals: 0	
Range: 1-1	

dummy 1996: 1:singlecity 2:surroundingcity 3:maincity (aggl_d1)

File: City Database

Overview

Type: Discrete	Valid cases: 4218
Format: numeric	Invalid: 1331
Width: 1	
Decimals: 0	
Range: 1-3	

dummy 2000: 1:singlecity 2:surroundingcity 3:maincity (aggl_d2)

File: City Database

Overview

Type: Discrete	Valid cases: 4213
Format: numeric	Invalid: 1336
Width: 1	
Decimals: 0	
Range: 1-3	

dummy 2010: 1:singlecity 2:surroundingcity 3:maincity (aggl_d3)

File: City Database

Overview

Type: Discrete	Valid cases: 4211
Format: numeric	Invalid: 1338
Width: 1	
Decimals: 0	
Range: 1-3	

of years btwn cen_1 & cen_3 (periods1_3)

File: City Database

Overview

Type: Discrete	Valid cases: 2878
Format: numeric	Invalid: 2671
Width: 2	
Decimals: 0	
Range: 19-26	

of years btwn cen_2 & cen_3 (periods2_3)

File: City Database

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 8-16

Valid cases: 5549
 Invalid: 0

of years btwn cen_1 & cen_2 (periods1_2)

File: City Database

Overview

Type: Discrete
 Format: numeric
 Width: 2
 Decimals: 0
 Range: 10-13

Valid cases: 2878
 Invalid: 2671

typology2 classification 96-10 (class_a)

File: City Database

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 1409
 Invalid: 4140

Description

Typology2 classification 1996-2010 type 1: growing populatio & growing economic activity (thriving core); type 2: declining population & declining economic activity (dimming core); type 3: growing population & declining economic activity (thriving core); type 4: declining population & growing economic activity (dimming core)

typology2 classification 00-10 (class_b)

File: City Database

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 2012
 Invalid: 3537

Description

Typology2 classification 2000-2010 type 1: growing populatio & growing economic activity (thriving core); type 2: declining population & declining economic activity (dimming core); type 3: growing population & declining economic activity (thriving core); type 4: declining population & growing economic activity (dimming core)

location fundamental: health of vegetation proxy for land usability (ndvi)

File: City Database

location fundamental: health of vegetation proxy for land usability (ndvi)

File: City Database

Overview

Type: Continuous	Valid cases: 5549
Format: numeric	Invalid: 0
Width: 3	Minimum: 0
Decimals: 0	Maximum: 255
Range: 0-255	

location fundamental: average minimum January temp (jantemp)

File: City Database

Overview

Type: Continuous	Valid cases: 5549
Format: numeric	Invalid: 0
Width: 7	Minimum: -47.8
Decimals: 0	Maximum: 10.8
Range: -47.843-10.823	

location fundamental: total annual precipitation (annprecip)

File: City Database

Overview

Type: Continuous	Valid cases: 5549
Format: numeric	Invalid: 0
Width: 7	Minimum: 0
Decimals: 0	Maximum: 2175.7
Range: 0-2175.65	

location fundamental: precentage forest cover (pcntforest)

File: City Database

Overview

Type: Continuous	Valid cases: 5511
Format: numeric	Invalid: 38
Width: 2	Minimum: 0
Decimals: 0	Maximum: 95
Range: 0-95	

distance to nearest coast in meters (dis_coast)

File: City Database

Overview

Type: Continuous	Valid cases: 5549
Format: numeric	Invalid: 0
Width: 7	Minimum: -1
Decimals: 0	Maximum: 2398610
Range: -1-2398610	

distance to nearest interenational border in meter (dis_border)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 13
 Decimals: 0
 Range: -1-3115887.96449

Valid cases: 5549
 Invalid: 0
 Minimum: -1
 Maximum: 3115888

closest border (closest_border)

File: City Database

Overview

Type: Discrete
 Format: character
 Width: 28

Valid cases: 5548
 Invalid: 0

lmkt potential NL 1 (mp_96)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 16
 Decimals: 0
 Range: 67.3090972900391-13111197

Valid cases: 5548
 Invalid: 1
 Minimum: 67.3
 Maximum: 13111197

Description

Local market potential based on night lights in 1996 (period 1)

lmkt potential NL 2 (mp_00)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 16
 Decimals: 0
 Range: 50.9005355834961-10169181

Valid cases: 5548
 Invalid: 1
 Minimum: 50.9
 Maximum: 10169181

Description

Local market potential based on night lights in 2000 (period 2)

lmkt potential NL 3 (mp_10)

File: City Database

Overview

Type: Continuous
 Format: numeric
 Width: 16
 Decimals: 0
 Range: 127.810813903809-17657290

Valid cases: 5548
 Invalid: 1
 Minimum: 127.8
 Maximum: 17657290

lmkt potential NL 3 (mp_10)

File: City Database

Description

Local market potential based on night lights in 2010 (period 3)

lmkt potential pop 1 (mpp_1)

File: City Database

Overview

Type: Continuous	Valid cases: 5548
Format: numeric	Invalid: 1
Width: 10	Minimum: 0
Decimals: 0	Maximum: 752852.4
Range: 0-752852.375	

Description

Local market potential based on population in year 1

lmkt potential pop 2 (mpp_2)

File: City Database

Overview

Type: Continuous	Valid cases: 5548
Format: numeric	Invalid: 1
Width: 16	Minimum: 4354.4
Decimals: 0	Maximum: 8154558.5
Range: 4354.44775390625-8154558.5	

Description

Local market potential based on population in year 2

lmkt potential pop 3 (mpp_3)

File: City Database

Overview

Type: Continuous	Valid cases: 5548
Format: numeric	Invalid: 1
Width: 16	Minimum: 5329.5
Decimals: 0	Maximum: 7943540.5
Range: 5329.48095703125-7943540.5	

Description

Local market potential based on population in year 3

Change in mp NL periods 1-2 (mpg_1_2)

File: City Database

Overview

Type: Continuous	Valid cases: 5548
Format: numeric	Invalid: 1
Width: 18	Minimum: -0.9
Decimals: 0	Maximum: 0.5
Range: -0.890280067920685-0.482028871774673	

Change in mp NL periods 1-2 (mpg_1_2)

File: City Database

Description

Change in market potential based on night lights between periods 1-2

Change in mp NL periods 2-3 (mpg_2_3)

File: City Database

Overview

Type: Continuous	Valid cases: 5548
Format: numeric	Invalid: 1
Width: 18	Minimum: -0.3
Decimals: 0	Maximum: 2.6
Range: -0.292332530021668-2.61445617675781	

Description

Change in market potential based on night lights between periods 2-3

Change in mp NL periods 1-3 (mpg_1_3)

File: City Database

Overview

Type: Continuous	Valid cases: 5548
Format: numeric	Invalid: 1
Width: 18	Minimum: -0.8
Decimals: 0	Maximum: 2.1
Range: -0.832781136035919-2.11000800132751	

Description

Change in market potential based on night lights between periods 1-3

Change in mp pop periods 1-2 (mppg_1_2)

File: City Database

Overview

Type: Continuous	Valid cases: 2878
Format: numeric	Invalid: 2671
Width: 18	Minimum: -0.4
Decimals: 0	Maximum: 0.6
Range: -0.441486269235611-0.624581217765808	

Description

Change in market potential based on population between census years 1-2

Change in mp pop periods 2-3 (mppg_2_3)

File: City Database

Overview

Type: Continuous	Valid cases: 5548
Format: numeric	Invalid: 1
Width: 18	Minimum: -0.1
Decimals: 0	Maximum: 0.8
Range: -0.140489190816879-0.772607445716858	

Change in mp pop periods 2-3 (mppg_2_3)

File: City Database

Description

Change in market potential based on population between census years 2-3

Change in mp pop periods 1-3 (mppg_1_3)

File: City Database

Overview

Type: Continuous

Format: numeric

Width: 18

Decimals: 0

Range: -0.467086315155029-0.820548295974732

Valid cases: 2878

Invalid: 2671

Minimum: -0.5

Maximum: 0.8

Description

Change in market potential based on population between census years 1-3

Related Materials

Reports

Cities in Eastern Europe and Central Asia: A Story of Urban Growth and Decline

Title Cities in Eastern Europe and Central Asia: A Story of Urban Growth and Decline
 Author(s) Paula Restrepo Cadavid, Grace Cineas, Luis E. Quintero, Sofia Zhukova
 Language English
 Filename eca_brief_all_web_103017.pdf

Technical documents

Global Night Time Lights Urban Extents and Growth Patterns Product, Technical Documentation

Title Global Night Time Lights Urban Extents and Growth Patterns Product, Technical Documentation
 Author(s) Mark Roberts, Benjamin Stewart, Mihir Prakash and Katie McWilliams
 Date 2015-11-09
 Language English
 Filename NTL technical documentation.pdf

Data Dictionary

Title Data Dictionary
 Language English
 Filename Managing Decline Data Dictionary.xlsx
