

Sources for spatial data used to produce the map (Figure 1) include:

nationalatlas.gov (available at: ), which is publicly available and has no license restrictions

iucnredlist.org (available at: ), which is publicly available and has no license restrictions (see attached documentation from their website)

ESRI Data and Maps 2006 (available at:

[http://downloads2.esri.com/support/whitepapers/ao\\_/J9509\\_ESRI\\_DataandMaps2006.pdf](http://downloads2.esri.com/support/whitepapers/ao_/J9509_ESRI_DataandMaps2006.pdf)). The specific files used were srtm\_n\_relief\_w.jp2 file and the gtopo30\_n\_relief\_w.jp2 file. These files fall under "Yes 1 - Redistribution rights are granted by the data vendor for hard-copy renditions or static, electronic map images (e.g. .gif, .jpeg, etc.) that are plotted, printed, or publicly displayed with proper metadata and source/copyright attribution to the respective data vendor(s)." The metadata outlining these permissions is attached.

The maps were produced by Mr. Jason Glatz of Western Michigan University. He has provided permission to publish the maps in the attached letter

- [Limitations of the Data](#)
- [Glossary](#)
- [Download GIS Data](#)
- [Acknowledgements](#)
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## Download GIS Data

The 2009 IUCN Red List of Threatened Species contains assessments for 49,000 species of which spatial data exists for about 25,000 species, including all mammals. Some species listed as Data Deficient are not mapped. These data are made freely available to the public to help inform conservation planning and other decision making processes. Detailed information on the [assessment process](#) is available on this website here.

The data are held in shapefiles, the ESRI native format and contain the known range of each species. Ranges are depicted as polygons. DBF files accompanying each polygon contain taxonomic information, and contain information on distribution status, sources and other details about the maps (see [metadata document](#)).

The data is available both in ESRI File Geodatabase format and the ESRI Shapefile format and is held in geographical coordinates. Please note that the files are large, and download times could be quite lengthy.

To download the mammals range data that was used for the spatial analysis, please visit the [Spatial Data Download](#) page in the [Technical Documents](#) section of this website.

[Download mammals data here.](#)



ISSN 2307-8235

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February 2, 2015

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Sincerely,

A handwritten signature in black ink, appearing to read "Jason Glatz".

Jason Glatz  
Maps Coordinator  
Waldo Library  
Western Michigan University  
Kalamazoo, MI 49008

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Description	Data Source	File Name	Directory	Redistribution (see FAQ below)
<b>World</b>				
Countries (generalized)	ArcWorld Supplement	country.*	\world	Yes 1,2,3
Countries 2006	ArcWorld Supplement	cntry06.*	\world	Yes 1,2,3
Country Boundaries (generalized)	ArcWorld	country_in.*	\world	Yes 1,2,3
Country Boundaries	ArcWorld	cntry06_in.*	\world	Yes 1,2,3
Administrative Units	ArcWorld Supplement	admin.*	\world	Yes 1,2,3
Administrative Boundaries	ArcWorld Supplement	admin_in.*	\world	Yes 1,2,3
Continents	ArcWorld Supplement	continent.*	\world	Yes 1,2,3
Regions	ArcWorld Supplement	region.*	\world	Yes 1,2,3
CountryWatch Demographics (table)	CountryWatch, US and International sources	cntrywch00.*	\world	Yes 1
Country Memberships of Political Organizations (table)	CIA Factbook	pol_org.*	\world	Yes 4
Cities	ArcWorld	cities.*	\world	Yes 1,2,3
Gazetteer	DCW	gaz.*	\world	Yes 1,2,3
Drainage Systems, Lakes, and Rivers	ArcWorld	lakes.*, rivers.*, drainage.*	\world	Yes 1,2,3
World Wildlife Fund Terrestrial Ecoregions	World Wildlife Fund, DCW	wwf_terr.*	\world	No
World Wildlife				

Fund Marine Ecoregions	World Wildlife Fund, DCW	wwf_mar.*	\world	No
UTM Zones	ArcWorld Supplement	utmzone.*	\world	Yes 1,2,3
Time Zones	ESRI	timezone.*	\world	Yes 1,2,3
Latitude and Longitude Grids	ESRI	latlong.*	\world	Yes 1,2,3
Named Latitudes and Longitudes	ESRI	geogrid.*	\world	Yes 1,2,3
World Map Background	ESRI	world30.*	\world	Yes 1,2,3
<b>Canada</b>				
Provinces	DMTI Spatial Inc.	province.*	\canada	Yes 1,2
Major Cities	DMTI Spatial Inc.	mjcities.*	\canada	Yes 1,2
Rural Cities	DMTI Spatial Inc.	rurcities.*	\canada	Yes 1,2
Urban Cities	DMTI Spatial Inc.	urbcities.*	\canada	Yes 1,2
Municipalities	DMTI Spatial Inc.	municplt.*	\canada	Yes 1,2
Regional Municipalities	DMTI Spatial Inc.	regnmuni.*	\canada	Yes 1,2
Indian Reserves	DMTI Spatial Inc.	indnrsrv.*	\canada	Yes 1,2
Highways	DMTI Spatial Inc.	mjrroads.*	\canada	Yes 1,2
Railways	DMTI Spatial Inc.	rails.*	\canada	Yes 1,2
FSA Postal Centroids	DMTI Spatial Inc.	postal.*	\canada	Yes 1,2
Telephone Area Code Boundaries	DMTI Spatial Inc.	areacode.*	\canada	Yes 1,2
National Parks	DMTI Spatial Inc.	natlpark.*	\canada	Yes 1,2
Provincial Parks	DMTI Spatial Inc.	provpark.*	\canada	Yes 1,2
Water Bodies	DMTI Spatial Inc.	water.*	\canada	Yes 1,2
<b>Mexico</b>				
States	Sistemas de Informacion Geografica, S.A. de C.V.	states.*	\mexico	Yes 1
Cities	Sistemas de Informacion Geografica, S.A. de C.V.	city.*	\mexico	Yes 1

Municipalities	Sistemas de Informacion Geografica, S.A. de C.V.	admin.*	\mexico	Yes 1
Urban Areas	Sistemas de Informacion Geografica, S.A. de C.V.	urban.*	\mexico	Yes 1
Contours	Sistemas de Informacion Geografica, S.A. de C.V.	contours.*	\mexico	Yes 1
Roads	Sistemas de Informacion Geografica, S.A. de C.V.	roads.*	\mexico	Yes 1
Railroads	Sistemas de Informacion Geografica, S.A. de C.V.	rails.*	\mexico	Yes 1
Rivers and Streams	Sistemas de Informacion Geografica, S.A. de C.V.	hydro_1.*	\mexico	Yes 1
Water Bodies	Sistemas de Informacion Geografica, S.A. de C.V.	hydro_p.*	\mexico	Yes 1
<b>United States</b>				
States and Counties (generalized)	ArcUSA, US Census, ESRI (Pop2005 field)	states.*, counties.*	\usa\census	US Census - Yes 1,2,3; ESRI - Yes 1,2,3
States and Counties	ESRI, derived from Tele Atlas, US Census, ESRI (Pop2005 field)	dtl_st.*, dtl_cnty.*	\usa\census	Tele Atlas - Yes 1,2; US Census - Yes 1,2,3; ESRI - Yes 1,2,3
State and County Boundaries	ESRI, derived from Tele Atlas	dtl_st_in.*, dtl_cty_in.*	\usa\census	Tele Atlas - Yes 1,2

County Population Estimates (tables)	US Census, Federal State Cooperative Program for Population Estimates	popestmt90.*, popestmt00.*	\usa\census	Yes 4
Census Tracts	Tele Atlas, US Census, ESRI (Pop2005 field)	tracts.*	\usa\census	Tele Atlas - Yes 1,2; US Census - Yes 1,2,3; ESRI - Yes 1,2,3
Census Feature Class Codes (table)	US Census	cfcc.dbf	\usa\census	Yes 4
108th Congressional Districts	ESRI	cd108.*	\usa\census	Yes 1,2,3
109th Congressional Districts	ESRI	cd109.*	\usa\census	Yes 1,2,3
Cities	US Census	cities.*	\usa\census	Yes 4
Populated Place Points	US Census	places.*	\usa\census	Yes 4
Populated Place Areas	Tele Atlas, US Census	placeply.*	\usa\census	Yes 1,2
Core Based Statistical Areas	Tele Atlas	cbsa.*	\usa\census	Yes 1,2
Major Roads	Tele Atlas	mjrds.*	\usa\trans	Yes 1,2
Highways	ESRI	highways.*	\usa\trans	Yes 1,2,3
Major Highways	ESRI	mjr_hwys.*	\usa\trans	Yes 1,2,3
National Transportation Atlas - Interstate Highways	US Bureau Transportation Statistics	intrstat.*	\usa\trans	Yes 4
National Transportation Atlas - Railroads	US Bureau Transportation Statistics	rail100k.*	\usa\trans	Yes 4
Census Urbanized Areas	US Census	urban.*	\usa\census	Yes 4
Major Parks	National Park	parks.*	\usa\landmarks	Yes 1,2

	Service, ArcUSA, Tele Atlas			
Drainage Systems, Lakes, and Rivers (generalized)	ArcWorld	drainage.*, lakes.*, and rivers.*	\usa\hydro	Yes 1,2,
Telephone Area Code Boundaries	Tele Atlas	areacode.*	\usa\census	Yes 1,2
ZIP Code Points	Tele Atlas	zip_usa.*	\usa\census	Yes 1,2
ZIP Code Areas (Five-Digit)	Tele Atlas, ESRI (Pop2005 field)	zip_poly.*	\usa\census	Tele Atlas - Yes 1,2; ESRI - Yes 1,2,3
ZIP Code Areas (Three-Digit)	ESRI, derived from Tele Atlas, ESRI (Pop2005 field)	zip3.*	\usa\census	Tele Atlas - Yes 1,2; ESRI - Yes 1,2,3
National Atlas - Airports	National Atlas of the United States	airports.*	\usa\trans	Yes 4
National Atlas - Cities	National Atlas of the United States	cities_dtl.*	\usa\census	Yes 4
National Atlas - Urbanized Areas	National Atlas of the United States	urban_dtl.*	\usa\census	Yes 4
National Atlas - Federal and Indian Land Areas	National Atlas of the United States	fedlandp.*	\usa\other	Yes 4
National Atlas - Federal Land Lines	National Atlas of the United States, USGS	fedlandl.*	\usa\other	Yes 4
National Atlas - Water Feature Areas and Lines	National Atlas of the United States, USGS	hydroply.*, hydroln.*	\usa\hydro	Yes 4
National Atlas - Public Land Survey	National Atlas of the United States, USGS	publdsur.*	\usa\other	Yes 4
National Atlas - Historic Earthquakes	National Atlas of the United States, USGS	quakehis.*	\usa\landmarks	Yes 4
National Atlas -	Smithsonian	volcano.*	\usa\landmarks	Yes 4



Volcanoes	Institution, Global Volcanism Program, National Atlas of the United States			
Airports	Tele Atlas	airportp.*	\usa\trans	Yes 1,2
Institutions	Tele Atlas	institut.*	\usa\landmarks	Yes 1,2
Large Area Landmarks	Tele Atlas	lalndmrk.*	\usa\landmarks	Yes 1,2
Parks	Tele Atlas	park_dtl.*	\usa\landmarks	Yes 1,2
Recreation Areas	Tele Atlas	recareas.*	\usa\landmarks	Yes 1,2
Transportation Terminals	Tele Atlas	tranterm.*	\usa\trans	Yes 1,2
Hospitals	American Hospital Association	hospitals.*	\usa\landmarks	No
Geographic Names Information System - Buildings	USGS - GNIS	gblding.*	\usa\landmarks	Yes 4
Geographic Names Information System - Cemeteries	USGS - GNIS	gcemetery.*	\usa\landmarks	Yes 4
Geographic Names Information System - Churches	USGS - GNIS	gchurch.*	\usa\landmarks	Yes 4
Geographic Names Information System - Golf Locales	USGS - GNIS	ggolf.*	\usa\landmarks	Yes 4
Geographic Names Information System - Hospitals	USGS - GNIS	ghospitl.*	\usa\landmarks	Yes 4

Geographic Names Information System - Locales	USGS - GNIS	glocale.*	\usa\landmarks	Yes 4
Geographic Names Information System - Populated Places	USGS - GNIS	gppl.*	\usa\landmarks	Yes 4
Geographic Names Information System - Schools	USGS - GNIS	gschools.*	\usa\landmarks	Yes 4
Geographic Names Information System - Summits	USGS - GNIS	gsummit.*	\usa\landmarks	Yes 4
State Plane Zones (NAD 1927, NAD 1983)	NOAA, USGS, ESRI	spcszn27.*, spcszn83.*	\usa\other	Yes 1,2,3
USGS Topographic Quadrangle Series Indexes - 1:24,000, 1:100,000, 1:250,000	ArcUSA	topoq24.*, topoq100.*, topoq250.*	\usa\other	Yes 1,2,3
Census Block Groups	Tele Atlas, US Census, ESRI (Pop2005)	blkgrp.*	\usa\census	Tele Atlas - Yes 1,2; US Census - Yes 1,2,3; ESRI - Yes 1,2,3
Census Block Centroid Populations	US Census	blockpop.*	\usa\census	Yes 4
Rivers and Streams	USGS, ESRI	dtl_riv.*	\usa\hydro	Yes 1,2,3
Water Bodies	USGS, ESRI	dtl_wat.*	\usa\hydro	Yes 1,2,3

StreetMap USA Detailed Streets	ESRI	streets.*	\Usa\Streetmap_usa\Streets	Yes 1,2,3
<b>Europe</b>				
Europe Base Map - Countries	AND Data Solutions, B.V.	country.*	\europe\basemap	No
Europe Base Map - Level 1 Provinces	AND Data Solutions, B.V.	prov1.*	\europe\basemap	No
Europe Base Map - Level 2 Provinces	AND Data Solutions, B.V.	prov2.*	\europe\basemap	No
Europe Base Map - Level 3 Provinces	AND Data Solutions, B.V.	prov3.*	\europe\basemap	No
Europe Base Map - Cities	AND Data Solutions, B.V.	cities.*	\europe\basemap	No
Europe Base Map - Places	AND Data Solutions, B.V.	places.*	\europe\basemap	No
Europe Base Map - Urbanized Areas	AND Data Solutions, B.V.	urban.*	\europe\basemap	No
Europe Base Map - Major Roads	AND Data Solutions, B.V.	mjrroads.*	\europe\basemap	No
Europe Base Map - Roads	AND Data Solutions, B.V.	roads.*	\europe\basemap	No
Europe Base Map - Railroads	AND Data Solutions, B.V.	rails.*	\europe\basemap	No
Europe Base Map - Major Lakes	AND Data Solutions, B.V.	mjrlakes.*	\europe\basemap	No
Europe Base Map - Major Rivers	AND Data Solutions, B.V.	mjrrivers.*	\europe\basemap	No
Europe Base Map - Water Bodies	AND Data Solutions, B.V.	water.*	\europe\basemap	No
Europe Base Map - Ferries	AND Data Solutions, B.V.	ferries.*	\europe\basemap	No
Europe Base Map - Railroad	AND Data Solutions, B.V.	rr_stns.*	\europe\basemap	No

Stations				
Europe Demographic - NUTS 0 Demographics	Michael Bauer Research GmbH I.G.; EuroGeographics; AND Data Solutions, B.V.	nuts0.*	\europe\demography	Michael Bauer - Yes 1; EuroGeographics - Yes 1; AND Data Solutions - No
Europe Demographic - NUTS 1 Demographics	Michael Bauer Research GmbH I.G.; EuroGeographics; AND Data Solutions, B.V.	nuts1.*	\europe\demography	Michael Bauer - Yes 1; EuroGeographics - Yes 1; AND Data Solutions - No
Europe Demographic - NUTS 2 Demographics	Michael Bauer Research GmbH I.G.; EuroGeographics; AND Data Solutions, B.V.	nuts2.*	\europe\demography	Michael Bauer - Yes 1; EuroGeographics - Yes 1; AND Data Solutions - No
Europe Demographic - NUTS 3 Demographics	Michael Bauer Research GmbH I.G.; EuroGeographics; AND Data Solutions, B.V.	nuts3.*	\europe\demography	Michael Bauer - Yes 1; EuroGeographics - Yes 1; AND Data Solutions - No

Image Data				
Global Digital Elevation Model (SRTM)	SRTM: NASA, NGA, USGS EROS, ESRI  GTOPO30: USGS EROS, ESRI	srtm_n_elev_c.jp2, srtm_n_elev_e.jp2, srtm_n_elev_w.jp2, srtm_s_elev_c.jp2, srtm_s_elev_e.jp2, srtm_s_elev_w.jp2, gtopo30_n_elev_c.jp2, gtopo30_n_elev_e.jp2, gtopo30_n_elev_w.jp2, gtopo30_s_elev_c.jp2, gtopo30_s_elev_e.jp2, gtopo30_s_elev_w.jp2	\srtm_void_filled\ elevation	Yes 1,2
Global Digital Elevation Model (ETOPO2)	National Geophysical Data Center	etopo2	\world_elevation	Yes 1,2,3
Global Digital Elevation Model	USGS EROS Data Center	gtopo30	\world_elevation	Yes 1,2,3

(GTOPO30)				
Global Shaded Relief	SRTM: NASA, NGA, USGS EROS, ESRI  GTOPO30: USGS EROS, ESRI	gtopo30_n_relief_w.jp2, gtopo30_s_relief_w.jp2, srtm_n_relief_w.jp2, srtm_s_relief_w.jp2, gtopo30_n_relief_c.jp2, gtopo30_s_relief_c.jp2, srtm_n_relief_c.jp2, srtm_s_relief_c.jp2, gtopo30_n_relief_e.jp2, gtopo30_s_relief_e.jp2, srtm_n_relief_e.jp2, srtm_s_relief_e.jp2	\shaded_relief	Yes 1,2
Global Imagery 150-meter Resolution	Earth Satellite Corporation	africa_150m_earthsat.jp2, asia_east_150m_earthsat.jp2, asia_west_150m_earthsat.jp2, australia_150m_earthsat.jp2, europe_150m_earthsat.jp2, northamerica_north_150m_earthsat.jp2, northamerica_south_150m_earthsat.jp2, southamerica_150m_earthsat.jp2	\global_imagery	Yes 2
World Topography and Bathymetry	DCW, NOAA, UCSD	world.sid	\world_elevation	No
WorldSat Color Shaded Relief Image	WorldSat International, Inc.	WSI-Earth99-2k.sid	\world_images	No
World Cloud Free Image	NASA	earth_1km.jp2	\world_images	Yes 1,2,3
World with Clouds Image	NASA	earth_clouds_5km.bil	\world_images	Yes 1,2,3
World with Ice Image	NASA	earth_ice_5km.bil	\world_images	Yes 1,2,3
World at Night Image	NASA	earth_city_lights_5km.bil	\world_images	Yes 1,2,3
Global Elevation Index	ESRI	elev_index.*	\srtm_void_filled\ data_quality	Yes 1,2
GTOPO30				

Source Index	USGS EROS, ESRI	gtopo30_source.*	\\srtm_void_filled\ data_quality	Yes 1,2
Void Areas (SRTM)	NASA, NGA, ESRI	srtm_n_nodata_c.sdc, srtm_n_nodata_e.sdc, srtm_n_nodata_w.sdc, srtm_s_nodata_c.sdc, srtm_s_nodata_e.sdc, srtm_s_nodata_w.sdc	\\srtm_void_filled\ data_quality	Yes 1,2
Water Bodies	SRTM: NASA, NGA, ESRI  GTOPO30: DCW, USGS EROS, ESRI	gtopo30_n_water_c.sdc, gtopo30_n_water_e.sdc, gtopo30_n_water_w.sdc, gtopo30_s_water_c.sdc, gtopo30_s_water_e.sdc, gtopo30_s_water_w.sdc, srtm_n_water_c.sdc, srtm_n_water_e.sdc, srtm_n_water_w.sdc, srtm_s_water_c.sdc, srtm_s_water_e.sdc, srtm_s_water_w.sdc	\\srtm_void_filled\ water	Yes 1,2

All data are available for internal use.

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