Hotspots (appearing in all world maps)

Critical Ecosystem Partnership Fund, “The Biodiversity Hotspots,” http://www.cepf.net/resources/hotspots/pages/default.aspx (accessed July 1, 2014). Data made available under the Creative Commons BY-SA 4.0 License: https://creativecommons.org/licenses/by-sa/4.0/legalcode.

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***Seismic Activity* map**

1. Earthquakes

International Seismological Centre, “The ISC-GEM Global Instrumental Earthquake Catalogue, version 2.0” (Thatcham, United Kingdom: Internatl. Seismol. Cent., 2015), http://www.isc.ac.uk/iscgem/ (accessed June 21, 2015). Data made available under the Creative Commons BY-SA 4.0 License: https://creativecommons.org/licenses/by-sa/4.0/legalcode.

2. Volcanoes

E. Venzke (ed.), Global Volcanism Program, “Volcanoes of the World, version 4.4.0” (Smithsonian Institution, 2013), http://dx.doi.org/10.5479/si.GVP.VOTW4-2013 (accessed June 27, 2015).

3. Ocean’s Lithosphere

R. Dietmar Müller, et al., “Age, spreading rates, and spreading symmetry of the world’s ocean crust,” *Geochemistry, Geophysics, Geosystems* 9, no. 4 (2008). Available at http://www.ngdc.noaa.gov/mgg/ocean\_age/ocean\_age\_2008.html.

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***Atmospheric currents***

1. Wind Direction

NOAA CDC, CIRES, NCAR, & NOAA NCDC, “Zonal wind component” in *COADS monthly climatology* dataset. Available at Live Access to the National Virtual Ocean Data Systems (NVODS), http://ferret.pmel.noaa.gov/NVODS/UI.vm (accessed November 11, 2014).

2. Tropical Storm and Hurricane Paths

NOAA Office for Coastal Management Digital Coast, “Historical Hurricane Tracks,” https://coast.noaa.gov/hurricanes/?redirect=301ocm (accessed November 11, 2014).

3. Underlying cloud image

Images created by Marit Jentoft-Nilsen (image) & Robert Simmon (globes), based on data from the MODIS, MOPITT, MISR, ASTER, and CERES science teams. Available at http://earthobservatory.nasa.gov/IOTD/view.php?id=42805 (accessed December 2, 2014).

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***Biomes***

1. Biomes

D. M. Olson, et al., “Terrestrial ecoregions of the world: a new map of life on Earth,” *Bioscience* 51, no. 11 (2001): 933-938. Available at http://www.worldwildlife.org/publications/terrestrial-ecoregions-of-the-world. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Ecoregions***

1. Ecoregions

D. M. Olson, et al., “Terrestrial ecoregions of the world: a new map of life on Earth,” *Bioscience* 51, no. 11 (2001): 933-938. Available at <http://www.worldwildlife.org/publications/terrestrial-ecoregions-of-the-world>.

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***Anthromes* (*Novel Ecosystems*)**

1. Anthromes

E. C. Ellis & N. Ramankutty, “Putting People in the Map: Anthropogenic Biomes of the World,” *Frontiers in Ecology and the Environment* 6, no. 8 (2008): 439-447. Dataset: Anthropogenic Biomes of the World, v1 (2001-2006), developed by E. C. Ellis & N. Ramankutty, distributed by the NASA Socioeconomic Data and Applications Center (SEDAC) of the Center for International Earth Science Information Network (CIESIN) / Columbia University, http://sedac.ciesin.columbia.edu/data/set/anthromes-anthropogenic-biomes-world-v1 (accessed November 20, 2014). NB The color scheme used was created by grouping dataset categories together based on generalized types of human occupation.

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***Threatened Mammals***

1. Threatened Mammal Ranges

The IUCN Red List of Threatened SpeciesTM, Red List Spatial Data “Mammals” Version 4, http://www.iucnredlist.org/technical-documents/spatial-data (accessed November 12, 2014).

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***Protected Areas***

1. Protected Areas

IUCN and UNEP-WCMC (2015). The World Database on Protected Areas (WDPA) [On-line], [November, 2015], Cambridge, UK: UNEP-WCMC. Available at: www.protectedplanet.net.

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***Ecoregions + -17%***

1. Ecoregions

D. M. Olson, et al., “Terrestrial ecoregions of the world: a new map of life on Earth,” *Bioscience* 51, no. 11 (2001): 933-938. Available at <http://www.worldwildlife.org/publications/terrestrial-ecoregions-of-the-world>.

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***Soils***

1. Soils

Source: Land and Water Development Division, FAO, Rome, “Digital Soil Map of the World” (2007). Available at http://www.fao.org/geonetwork/srv/en/metadata.show?id=14116 (accessed June 14, 2015).

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***Croplands***

1. Croplands

Navin Ramankutty, et al., “Farming the Planet: 1. Geographic Distribution of Global Agricultural Lands in the Year 2000,” *Global Biogeochemical Cycles* 22, no. 1 (2008). Dataset: “Global Agricultural Lands: Croplands, 2000”, developed by Navin Ramankutty, et al. (2010), distributed by the NASA Socioeconomic Data and Applications Center (SEDAC) of the Center for International Earth Science Information Network (CIESIN) / Columbia University, http://sedac.ciesin.columbia.edu/data/set/aglands-croplands-2000 (accessed October 4, 2014).

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***Meat Map***

1. Pasturelands

Navin Ramankutty, et al., “Farming the Planet: 1. Geographic Distribution of Global Agricultural Lands in the Year 2000,” *Global Biogeochemical Cycles* 22, no. 1 (2008). Dataset: “Global Agricultural Lands: Pastures, 2000”, developed by Navin Ramankutty, et al. (2010), distributed by the NASA Socioeconomic Data and Applications Center (SEDAC) of the Center for International Earth Science Information Network (CIESIN) / Columbia University, http://sedac.ciesin.columbia.edu/data/set/aglands-pastures-2000 (accessed October 4, 2014).

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***Land Degradation***

1. Loss of Net Primary Productivity

FAO, Rome, “Global NPP Loss In The Degrading Areas (1981-2003)” (2008). Available at http://www.fao.org/geonetwork/srv/en/metadata.show?currtab=simple&id=37055 (accessed November 11, 2014).

2. Drylands

UNEP-WCMC, 2007 A spatial analysis approach to the global delineation of dryland areas of relevance to the CBD Programme of Work on Dry and Subhumid Lands. Dataset based on spatial analysis between WWF terrestrial ecoregions (WWF-US, 2004) and aridity zones (CRU/UEA; UNEPGRID, 1991). Dataset checked and refined to remove many gaps, overlaps and slivers (July 2014). Available at http://www.unep-wcmc.org/resources-and-data/world-dryland-areas-according-to-unccd-and-cbd-definitions (accessed July 14, 2014).

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***Deforestation***

1. Forest cover, Forest loss

Source: Hansen/UMD/Google/USGS/NASA

M. C. Hansen, et al., “High-Resolution Global Maps of 21st-Century Forest Cover Change,” *Science* 342, no. 6160 (2013): 850-853. Data available at http://earthenginepartners.appspot.com/science-2013-global-forest (accessed August 2, 2015). Data made available under the Creative Commons Attribution 4.0 International License: https://creativecommons.org/licenses/by/4.0/legalcode.

2. Forest Biomes

D. M. Olson, et al., “Terrestrial ecoregions of the world: a new map of life on Earth,” *Bioscience* 51, no. 11 (2001): 933-938. Available at http://www.worldwildlife.org/publications/terrestrial-ecoregions-of-the-world.

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***Tropics***

2. Forests

Source: Hansen/UMD/Google/USGS/NASA

M. C. Hansen, et al., “High-Resolution Global Maps of 21st-Century Forest Cover Change,” *Science* 342, no. 6160 (2013): 850-853. Data available at http://earthenginepartners.appspot.com/science-2013-global-forest (accessed August 2, 2015). Data made available under the Creative Commons Attribution 4.0 International License: https://creativecommons.org/licenses/by/4.0/legalcode.

3. Mangroves

M. D. Spalding, F. Blasco, & C. Field (eds.), *World Mangrove Atlas* (Okinawa,Japan: International Society for Mangrove Ecosystems, 1997), 178. Compiled by UNEP-WCMC, in collaboration with the International Society for Mangrove Ecosystems (ISME). (version 3). Available at https://archive.org/details/worldmangroveatl97spal (accessed October 13, 2014).

4.  Coral Reefs

UNEP-WCMC, WorldFish Centre, WRI, TNC, “Global distribution of warm-water coral reefs, version 1.3,” compiled from multiple sources including the Millennium Coral Reef Mapping Project, includes contributions from IMaRS-USF and IRD (2005), IMaRS-USF (2005) and Spalding et al. (2001), (Cambridge, UK: UNEP World Conservation Monitoring Centre, 2010). Available at http://data.unep-wcmc.org/datasets/1.

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***Rivers and Water Basins***

1. Rivers

Natural Earth, “Rivers + Lake centerlines,” http://www.naturalearthdata.com/downloads/10m-physical-vectors/10m-rivers-lake-centerlines/.

2. Wetlands

UNEP-WCMC-Global, “Global Wetlands (1993),” Last updated October 3, 2011, http://www.arcgis.com/home/item.html?id=105a402642e146eaa665315279a322d 1 (accessed August 1, 2015).

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***Health of Waters***

1. Freshwater Quality

World Resources Institute, “Aqueduct Water Risk Atlas” (2013), http://www.wri.org/resources/maps/aqueduct-water-risk-atlas (accessed October 11, 2014). Physical Risk Quality map of the Interactive map was used.

2. Garbage Gyres

Derived from Nikolai Maximenko & Jan Hafner, “Marine Debris,” *International Pacific Research Center (IPRC)* 10, no. 2 (2010). Available at http://iprc.soest.hawaii.edu/news/marine\_and\_tsunami\_debris/Marine\_Debris\_IPRC\_Climate\_Stories.pdf (accessed October 31, 2015).

3. Marine Dead Zones

World Resources Institute, “Eutrophication and Hypoxia Map Data Set” (2013), http://www.wri.org/resources/data-sets/eutrophication-hypoxia-map-data-set (accessed October 9, 2014).

4. Dams

B. Lehner, et al., “High resolution mapping of the world’s reservoirs and dams for sustainable river flow management,” *Frontiers in Ecology and the Environment* 9, no. 9 (2011). Source: GWSP Digital Water Atlas (2008). Map 81. GRanD Database (V1.0). Available at http://www.gwsp.org/products/grand-database.html.

5. Rivers

Natural Earth, “Rivers + Lake centerlines,” http://www.naturalearthdata.com/downloads/10m-physical-vectors/10m-rivers-lake-centerlines/.

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***Access to Water***

1. Fresh Water Access

World Resources Institute, “Aqueduct Water Risk Atlas” (2013), http://www.wri.org/resources/maps/aqueduct-water-risk-atlas (accessed October 11, 2014).

Physical Risk Quantity map of the Interactive map was used.

2. Cities with Stressed Water Sources

Robert I. McDonald, et al., “Water on an urban planet: Urbanization and the reach of urban water infrastructure,” *Global Environmental Change* 27 (2014): 96-105. Data made available under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported License: https://creativecommons.org/licenses/by-nc-sa/3.0/legalcode.

3. Metropolis Populations

United Nations Department of Economic and Social Affairs Population Division, “World Population Prospects, the 2015 Revision,” https://esa.un.org/unpd/wpp/Download/Standard/Population/ (accessed July 20, 2016).

4. Rivers

Natural Earth, “Rivers + Lake centerlines,” http://www.naturalearthdata.com/downloads/10m-physical-vectors/10m-rivers-lake-centerlines/.

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***Evolution of Urbanization: pre-modern era***

Meredith Reba, Femke Reitsma, & Karen C. Seto, “Spatializing 6,000 years of global urbanization from 3700 BC to AD 2000,” *Scientific Data 3,* 160034. Data available through the Yale University Seto Lab: Urbanization & Global Change, “Historical Urban Population Growth Data,” http://urban.yale.edu/data (accessed June 18, 2016). Data made available under the Creative Commons Attribution 4.0 International Licenses: https://creativecommons.org/licenses/by/4.0/legalcode.

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***Evolution of Urbanization: modern era***

Meredith Reba, Femke Reitsma, & Karen C. Seto, “Spatializing 6,000 years of global urbanization from 3700 BC to AD 2000,” *Scientific Data 3,* 160034. Data available through the Yale University Seto Lab: Urbanization & Global Change, “Historical Urban Population Growth Data,” http://urban.yale.edu/data (accessed June 18, 2016). Data made available under the Creative Commons Attribution 4.0 International Licenses: https://creativecommons.org/licenses/by/4.0/legalcode.

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***Megastructures***

1. Submarine Cables

TeleGeography: authoritative telecom data, “Submarine Cable Map,” https://www.telegeography.com/telecom-resources/submarine-cable-map/index.html (accessed December 2, 2014). Data made available under the Creative Commons Attribution-NonCommercial-NoDerivs 3.0 Unported License: https://creativecommons.org/licenses/by-nc-nd/3.0/.

2. Pipelines (Natural Gas and Oil)

Jeff Blossom, “Global Oil Pipelines,” *Harvard Map Collection, Harvard College Library,* http://worldmap.harvard.edu/data/geonode:global\_oil\_pipelines\_7z9 (accessed November 17, 2014).

Martin, “Natural Gas Pipelines in Europe, Asia, Africa & Middle East,” http://opendatacommons.org/licenses/by/1-0/ (accessed November 17, 2014).  Data made available under the ODC Attribution license: http://opendatacommons.org/licenses/by/1-0/.

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***Population Pressure***

1. Rural Population Change

United Nations, Department of Economic and Social Affairs, Population Division (2014), “World Urbanization Prospects: The 2014 revision” *Rural Growth Rate,* https://esa.un.org/unpd/wup/CD-ROM/Default.aspx (accessed November 14, 2014).

2. Urban Population

Esri, DeLorme Publishing Company, Inc. “World Cities” (2011), http://www.arcgis.com/home/item.html?id=dfab3b294ab24961899b2a98e9e8cd3d (accessed November 20, 2014)

3. Urban Population Change

United Nations, Department of Economic and Social Affairs, Population Division (2014), “World Urbanization Prospects: The 2014 revision” *Urban Growth Rat*e, https://esa.un.org/unpd/wup/CD-ROM/Default.aspx (accessed November 14, 2014).

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***Energy***

1. Giant Gas and Oil Fields

Energy Data Exchange, “AAPG Datapages: Giant Oil and Gas Fields of the World,” https://edx.netl.doe.gov/dataset/aapg-datapages-giant-oil-and-gas-fields-of-the-world. Original source: M. K. Horn, “Giant fields 1868-2004, version 1.2,” CD-ROM format, (AAPG/Datapages Miscellaneous Data Series, 2004).

2. Crude Oil Refineries

Martin, “657 Crude Oil Refineries - Retrieved from google earth community,” http://worldmap.harvard.edu/data/geonode:\_crude\_oil\_refineries\_retrieved\_from\_\_bff (accessed November 14, 2014).

3. Natural Gas Basins

Feliks M. Perisits, Douglas W. Steinshouer, & Sandra J. Lindquist, U.S. Geological Survey, “Total Petroleum System Geologic Characterizations,” *Digital Data Series (DDS) 60 World Petroleum Assessment 2000* (Denver: U.S. Geological Survey, 2000). Available at http://energy.usgs.gov/oilgas/assessmentsdata/worldpetroleumassessment.aspx#3882216-data (accessed November 16, 2014).

4. Oil Fields

Feliks M. Perisits, Douglas W. Steinshouer, & Sandra J. Lindquist, U.S. Geological Survey, “Total Petroleum System Geologic Characterizations,” *Digital Data Series (DDS) 60 World Petroleum Assessment 2000* (Denver: U.S. Geological Survey, 2000). Available at http://energy.usgs.gov/oilgas/assessmentsdata/worldpetroleumassessment.aspx#3882216-data (accessed November 16, 2014).

5. Coal Deposits

Adopted from American Association of Petroleum Geologists, “The location of coal deposits in the world,” https://ugmsc.wordpress.com/2010/09/10/cbm-an-introduction/ (accessed November 16, 2004).

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***Nuclear Energy***

1. Nuclear Reactors

“Operational Nuclear Reactors,” *The Guardian,* data sourced from the World Nuclear Association, https://www.theguardian.com/news/datablog/2011/mar/18/nuclear-reactors-power-stations-world-list-map#data (accessed June 21, 2015).

2. Nuclear Accidents

Benjamin K. Sovacool, “The Cost of failure: A preliminary assessment of major energy accidents, 1907-2007,” *Energy Policy* 36, no. 5 (2008): 1802-1820.

“Nuclear power plant accidents: listed and ranked since 1952,” *The Guardian,* data partially sourced from the International Atomic Energy Authority,https://www.theguardian.com/news/datablog/2011/mar/14/nuclear-power-plant-accidents-list-rank#data (accessed June 21, 2015).

3. National Uranium Deposits

International Atomic Energy Agency (IAEA): Integrated Nuclear Fuel Cycle Information Systems (INFCIS), “World Distribution of Uranium Deposits,” https://infcis.iaea.org/UDEPO/UDEPOMain.asp?Order=1&RPage=1&Page=1&RightP=List (accessed June 21, 2015).

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***Climate Change***

1. Projected Surface Temperature Changes

IPCC, [T. F. Stocker, D. Qin, G.-K. Plattner, M. Tignor, S. K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex, & P. M. Midgley] (eds). IPCC*, Climate Change 2013: The Physical Science Basis. Contribution of Working Group 1 to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* (Cambridge, UK and New York, NY: Cambridge University Press, 2013). Available at http://www.ipcc.ch/report/ar5/wg1/ (accessed October 15, 2016).

NB Surface temperature change projections are for Scenario RCP8.5:2081-2100.

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***Sea Level Rise***

1. 80-meter rise

R. Z Poore, R. S. Williams Jr., & Christopher Tracy, “Sea level and climate,” *US Geological Survey* Fact Sheet 002-00 (2000). Available at http://pubs.usgs.gov/fs/fs2-00/.

2. Displace Population and Land Lost numbers

NASA Socioeconomic Data and Applications Center (SEDAC) of the Center for International Earth Science Information (CIESIN) / Columbia University, “Low Elevation Coastal Zone: Urban-Rural Population and Land Area Estimates version 2,” (Palisades, NY: 2013). Available at http://sedac.ciesin.columbia.edu/data/set/lecz-urban-rural-population-land-area-estimates-v2 (accessed October 8, 2014).

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***Environmental Displacement***

1. Human Displacement

Internal Displacement Monitoring Centre (IDMC) data as of 01/06/2015. Accessed on 19/06/2016 at www.internal-displacement.org.

2. Ecosystem Displacement

Felix Eigenbrod, et al., “Vulnerability of ecosystems to climate change moderated by habitat intactness,” *Global Change Biology* 21. no. 1 (2014): 275-286.

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***Conflict and Corruption***

1. Armed Conflict Events

John Dittrich Hallberg, “PRIO Conflict Site 1989-2008: A Geo-Referenced Dataset on Armed Conflict,” *Conflict Management and Peace Science* 29 (2012): 219-232. Dataset available at https://www.prio.org/data/armed-conflict/conflict-site/*.*

2. Perceived Governmental Corruption

Transparency International, “Corruptions Perception Index 2013,” http://www.transparency.org/cpi2013/results#myAnchor1 (accessed November 18, 2014).

3. Territorial Disputes

“Disputes-International,” in *The World Factbook 2013-2014* (Washington, DC: Central Intelligence Agency, 2013). Available at https://www.cia.gov/library/publications/the-world-factbook/fields/2070.html (accessed November 21, 2014).

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***Conflict and Displacement***

1. Armed Conflict Events

John Dittrich Hallberg, “PRIO Conflict Site 1989-2008: A Geo-Referenced Dataset on Armed Conflict,” *Conflict Management and Peace Science* 29 (2012): 219-232. Dataset available at https://www.prio.org/data/armed-conflict/conflict-site/*.*

2. Displaced Peoples-country of origin

UNHCR, “Global Trends: Forces Displacement in 2015,” http://www.unhcr.org/statistics/unhcrstats/576408cd7/unhcr-global-trends-2015.html (accessed June 26, 2016).

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