

UN Biodiversity Lab 2.0 - Data List

2021-08-30

For any questions please contact support@unbiodiversitylab.org.

Table 1: UN Biodiversity Lab Data List

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Administrative Areas	Contiguous Zone (24 NM)	Published	Yes	No	Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200 NM), version 11.
Administrative Areas	Continuous Marine/Land Administrative Boundaries	In Development	Yes	No	FAO Data - Map - Global Country Boundaries 2012.; Flanders Marine Institute (2018). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200 NM), version 10. Available online at http://www.marineregions.org/ . https://doi.org/10.14284/312
Administrative Areas	Exclusive Economic Zone (EEZ)	Published	Yes	No	Flanders Marine Institute. 2020. Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200 NM), version 11.
Administrative Areas	Territorial Seas (12 NM)	Published	Yes	No	Flanders Marine Institute. 2019. Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200 NM), version 11.
Biodiversity	Biodiversity Intactness Index	Published	Yes	No	Newbold, T., Hudson, L.N., Arnell, A.P., Contu, S., Palma, A.D., Ferrier, S., Hill, S.L.L., Hoskins, A.J., Lysenko, I., Phillips, H.R.P., Burton, V.J., Chang, C.W.T., Emerson, S., Gao, D., Pask-Hale, G., Hutton, J., Jung, M., Sanchez-Ortiz, K., Simmons, B.I., Whitmee, S., Zhang, H., Purvis, J.P.W.S.& A., 2016. Global map of the Biodiversity Intactness Index, from Newbold et al. (2016) Science. https://doi.org/10.5519/0009936

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Biodiversity	Forest Integrity Project: Forest Canopy Height (2019)	Published	Yes	No	Hansen, M.C., Potapov, P.V., Goetz, S.J., Turubanova, S., Tyukavina, A., Krylov, A., Kommareddy, A., Egorov, A., 2016. Mapping tree height distributions in Sub-Saharan Africa using Landsat 7 and 8 data. <i>Remote Sensing of Environment, Landsat 8 Science Results</i> 185, 221–232.
Biodiversity	Forest Landscape Integrity Index (FLII)	Published	Yes	No	Grantham, H.S., Duncan, A., Evans, T.D. et al. Anthropogenic modification of forests means only 40% of remaining forests have high ecosystem integrity. <i>Nat Commun</i> 11, 5978 (2020). https://doi.org/10.1038/s41467-020-19493-3
Biodiversity	Forest Structural Condition Index (FSCI)	Published	Yes	No	Hansen, A., Barnett, K., Jantz, P., Phillips, L., Goetz, S.J., Hansen, M., Venter, O., Watson, J.E.M., Burns, P., Atkinson, S., Rodríguez-Buritica, S., Ervin, J., Virnig, A., Supples, C., Camargo, R.D., 2019. Global humid tropics forest structural condition and forest structural integrity maps. <i>Sci Data</i> 6, 1–12. https://doi.org/10.1038/s41597-019-0214-3
Biodiversity	Forest Structural Integrity Index (FSII)	Published	Yes	No	Hansen, A., Barnett, K., Jantz, P., Phillips, L., Goetz, S.J., Hansen, M., Venter, O., Watson, J.E.M., Burns, P., Atkinson, S., Rodríguez-Buritica, S., Ervin, J., Virnig, A., Supples, C., Camargo, R.D., 2019. Global humid tropics forest structural condition and forest structural integrity maps. <i>Sci Data</i> 6, 1–12. https://doi.org/10.1038/s41597-019-0214-3

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Biodiversity	Global Forest Watch: Forest Biodiversity Importance	In Development	NA	No	Hill, S.L.L., Arnell, A., Maney, C., Butchart, S.H.M., Hilton-Taylor, C., Ciciarelli, C., Davis, C., Dinerstein, E., Purvis, A., Burgess, N.D., 2019. Measuring Forest Biodiversity Status and Changes Globally. <i>Front. For. Glob. Change</i> 2. https://doi.org/10.3389/ffgc.2019.00070 IUCN, BirdLife International, UNEP-WCMC. 2016. Biodiversity importance. Accessed from Global Forest Watch on 27/11/2020. www.globalforestwatch.org .
Biodiversity	Global Forest Watch: Forest Biodiversity Intactness	In Development	NA	No	Dataset: UNEP-WCMC and Natural History Museum. "Biodiversity Intactness." Accessed from Global Forest Watch on 27/11/2020. www.globalforestwatch.org Paper: Hill, S. L. et al. (2019). Measuring forest biodiversity status and changes globally. <i>Frontiers in Forests and Global Change</i> , 2, 70.
Biodiversity	Global Safety Net: High Biodiversity Areas	Published	NA	No	Dinerstein, E., Joshi, A.R., Vynne, C., Lee, A.T.L., Pharand-Deschênes, F., França, M., Fernando, S., Birch, T., Burkart, K., Asner, G.P., Olson, D., 2020. A "Global Safety Net" to reverse biodiversity loss and stabilize Earth's climate. <i>Science Advances</i> 6, eabb2824. https://doi.org/10.1126/sciadv.abb2824
Biodiversity	Global Safety Net: Intact Wilderness Areas	Published	NA	No	Dinerstein, E., Joshi, A.R., Vynne, C., Lee, A.T.L., Pharand-Deschênes, F., França, M., Fernando, S., Birch, T., Burkart, K., Asner, G.P., Olson, D., 2020. A "Global Safety Net" to reverse biodiversity loss and stabilize Earth's climate. <i>Science Advances</i> 6, eabb2824. https://doi.org/10.1126/sciadv.abb2824
Biodiversity	Global Safety Net: Large Mammal Landscape	Published	NA	No	Dinerstein, E., Joshi, A.R., Vynne, C., Lee, A.T.L., Pharand-Deschênes, F., França, M., Fernando, S., Birch, T., Burkart, K., Asner, G.P., Olson, D., 2020. A "Global Safety Net" to reverse biodiversity loss and stabilize Earth's climate. <i>Science Advances</i> 6, eabb2824. https://doi.org/10.1126/sciadv.abb2824

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Biodiversity	Global Safety Net: Potential Wildlife Corridors	Published	NA	No	Dinerstein, E., Joshi, A.R., Vynne, C., Lee, A.T.L., Pharand-Deschênes, F., França, M., Fernando, S., Birch, T., Burkart, K., Asner, G.P., Olson, D., 2020. A “Global Safety Net” to reverse biodiversity loss and stabilize Earth’s climate. <i>Science Advances</i> 6, eabb2824. https://doi.org/10.1126/sciadv.abb2824
Biodiversity	Global Safety Net: Rare Species Sites	Published	NA	No	Dinerstein, E., Joshi, A.R., Vynne, C., Lee, A.T.L., Pharand-Deschênes, F., França, M., Fernando, S., Birch, T., Burkart, K., Asner, G.P., Olson, D., 2020. A “Global Safety Net” to reverse biodiversity loss and stabilize Earth’s climate. <i>Science Advances</i> 6, eabb2824. https://doi.org/10.1126/sciadv.abb2824
Biodiversity	Marine Wilderness	Published	Yes	No	Jones, K.R., Klein, C.J., Halpern, B.S., Venter, O., Grantham, H., Kuempel, C.D., Shumway, N., Friedlander, A.M., Possingham, H.P., Watson, J.E.M., 2018. The Location and Protection Status of Earth’s Diminishing Marine Wilderness. <i>Current Biology</i> 28, 2506-2512.e3. https://doi.org/10.1016/j.cub.2018.06.010
Biodiversity	NatureMap - Areas of global significance for biodiversity conservation	Published	No	No	Jung, M., Arnell, A., de Lamo, X., García-Rangel, S., Lewis, M., Mark, J., Merow, C., Miles, L., et al. (2021). Areas of global importance for conserving terrestrial biodiversity, carbon, and water. <i>Nature Ecology and Evolution</i> DOI: 10.1038/s41559-021-01528-7
Biodiversity	NatureMap - Areas of global significance for biodiversity conservation and carbon storage.	Published	No	No	Jung, M., Arnell, A., de Lamo, X., García-Rangel, S., Lewis, M., Mark, J., Merow, C., Miles, L., et al. (2021). Areas of global importance for conserving terrestrial biodiversity, carbon, and water. <i>Nature Ecology and Evolution</i> DOI: 10.1038/s41559-021-01528-7

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Biodiversity	NatureMap - Areas of global significance for biodiversity conservation and water provision	Published	No	No	Jung, M., Arnell, A., de Lamo, X., García-Rangel, S., Lewis, M., Mark, J., Merow, C., Miles, L., et al. (2021). Areas of global importance for conserving terrestrial biodiversity, carbon, and water. <i>Nature Ecology and Evolution</i> DOI: 10.1038/s41559-021-01528-7
Biodiversity	NatureMap - Areas of global significance for biodiversity conservation, carbon storage and water provision	Published	No	No	Jung, M., Arnell, A., de Lamo, X., García-Rangel, S., Lewis, M., Mark, J., Merow, C., Miles, L., et al. (2021). Areas of global importance for conserving terrestrial biodiversity, carbon, and water. <i>Nature Ecology and Evolution</i> DOI: 10.1038/s41559-021-01528-7
Biodiversity	NatureMap - Forest Biodiversity Intactness Index	Published	No	No	NA
Biodiversity	NatureMap - Rarity-Weighted Richness	Published	No	No	UNEP-WCMC (2020) Rarity-weighted species richness. Derived from Areas of Habitat maps created from data from the IUCN Red List, BirdLife International, the Global Assessment of Reptile Distributions (GARD), the Botanical Information and Ecology Network (BIEN) database and additional vascular plant species ranges were created from point data from the IUCN Red List, Botanic Gardens Conservation International (BGCI), the Global Biodiversity Information Facility (GBIF) and iNaturalist. Cambridge, UK.

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Biodiversity	NatureMap - Species Richness	Published	No	No	UNEP-WCMC (2020) Species richness. Derived from Areas of Habitat maps created from data from the IUCN Red List, BirdLife International, the Global Assessment of Reptile Distributions (GARD), the Botanical Information and Ecology Network (BIEN) database and additional vascular plant species ranges were created from point data from the IUCN Red List, Botanic Gardens Conservation International (BGCI), the Global Biodiversity Information Facility (GBIF) and iNaturalist. Cambridge, UK.
Biodiversity	NatureMap - Threatened Species Rarity-Weighted Richness	Published	No	No	UNEP-WCMC (2020) Threatened rarity-weighted species richness refined by area of habitat derived from range maps from the IUCN Red List (IUCN Red List of Threatened Species (2019) Version 2019.2. www.iucnredlist.org), the Global Assessment of Reptile Distributions (GARD) (Roll et al. (2017), Version 1.5, datadryad.org/stash/dataset/doi:10.5061/dryad.83s7k) and the Botanical Information and Ecology Network (BIEN) database (Enquist et al. 2019 and Maitner et al. 2017, version 4.1. http://bien.nceas.ucsb.edu/bien/biendata/) and additional vascular plant species ranges were created from point data from the IUCN Red List, Botanic Gardens Conservation International (BGCI) (www.bgci.org) and the Global Biodiversity Information Facility (GBIF) (www.gbif.org).the IUCN Red List, BirdLife International.

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Biodiversity	NatureMap - Threatened Species Richness	Published	No	No	UNEP-WCMC (2020) Threatened species richness. Derived from Areas of Habitat maps created from data from the IUCN Red List, BirdLife International, the Global Assessment of Reptile Distributions (GARD), the Botanical Information and Ecology Network (BIEN) database and additional vascular plant species ranges were created from point data from the IUCN Red List, Botanic Gardens Conservation International (BGCI), the Global Biodiversity Information Facility (GBIF) and iNaturalist. Cambridge, UK.
Biodiversity	Terrestrial Biomes (Ecoregions2017)	Published	Yes	No	Dinerstein, E., Olson, D., Joshi, A., Vynne, C., Burgess, N.D., Wikramanayake, E., Hahn, N., Palminteri, S., Hedao, P., Noss, R., Hansen, M., Locke, H., Ellis, E.C., Jones, B., Barber, C.V., Hayes, R., Kormos, C., Martin, V., Crist, E., Sechrest, W., Price, L., Baillie, J.E.M., Weeden, D., Suckling, K., Davis, C., Sizer, N., Moore, R., Thau, D., Birch, T., Potapov, P., Turubanova, S., Tyukavina, A., de Souza, N., Pintea, L., Brito, J.C., Llewellyn, O.A., Miller, A.G., Patzelt, A., Ghazanfar, S.A., Timberlake, J., Klöser, H., Shennan-Farpón, Y., Kindt, R., Lillesø, J.-P.B., van Breugel, P., Gaudal, L., Voge, M., Al-Shammari, K.F., Saleem, M., 2017. An Ecoregion-Based Approach to Protecting Half the Terrestrial Realm. <i>BioScience</i> 67, 534–545. https://doi.org/10.1093/biosci/bix014

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Biodiversity	World Ecosystems	Published	Yes	No	Sayre, R., Karagulle, D., Frye, C., Boucher, T., Wolff, N.H., Breyer, S., Wright, D., Martin, M., Butler, K., Van Graafeiland, K., Touval, J., Sotomayor, L., McGowan, J., Game, E.T., Possingham, H., 2020. An assessment of the representation of ecosystems in global protected areas using new maps of World Climate Regions and World Ecosystems. <i>Global Ecology and Conservation</i> 21, e00860. https://doi.org/10.1016/j.gecco.2019.e00860
Climate & Carbon	Aboveground Biomass Carbon Density 2010	Published	Yes	No	Spawn, S.A., and H.K. Gibbs. 2020. Global Aboveground and Belowground Biomass Carbon Density Maps for the Year 2010. ORNL DAAC, Oak Ridge, Tennessee, USA. https://doi.org/10.3334/ORNLDAAC/1763
Climate & Carbon	Belowground Biomass Carbon Density 2010	Published	Yes	No	Spawn, S.A., and H.K. Gibbs. 2020. Global Aboveground and Belowground Biomass Carbon Density Maps for the Year 2010. ORNL DAAC, Oak Ridge, Tennessee, USA. https://doi.org/10.3334/ORNLDAAC/1763
Climate & Carbon	Change in Aboveground Woody Carbon Density 2003-2014	Published	No - need to confirm if re-projection restricts sharing	No	Baccini, A., Walker, W., Carvalho, L., Farina, M., Sulla-Menashe, D., Houghton, R.A., 2017. Tropical forests are a net carbon source based on aboveground measurements of gain and loss. <i>Science</i> 358, 230–234. https://doi.org/10.1126/science.aam5962
Climate & Carbon	Global Mangrove Soil Carbon	Published	Yes	No	Sanderman, J., Hengl, T., Fiske, G., Solvik, K., Adame, M.F., Benson, L., Bukoski, J.J., Carnell, P., Cifuentes-Jara, M., Donato, D., Duncan, C., Eid, E.M., Ermgassen, P. zu, Lewis, C.J.E., Macreadie, P.I., Glass, L., Gress, S., Jardine, S.L., Jones, T.G., Nsombo, E.N., Rahman, M.M., Sanders, C.J., Spalding, M., Landis, E., 2018. A global map of mangrove forest soil carbon at 30 m spatial resolution. <i>Environ. Res. Lett.</i> 13, 055002. https://doi.org/10.1088/1748-9326/aabe1c

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Climate & Carbon	Global Patterns in Marine Sediment Carbon Stocks	Published	Yes	No	Atwood, T.B., Witt, A., Mayorga, J., Hammill, E., Sala, E., 2020. Global Patterns in Marine Sediment Carbon Stocks. <i>Front. Mar. Sci.</i> 7. https://doi.org/10.3389/fmars.2020.00165
Climate & Carbon	Global Safety Net: Climate Stabilisation Areas Tier 1	Published	NA	No	Dinerstein, E., Joshi, A.R., Vynne, C., Lee, A.T.L., Pharand-Deschênes, F., França, M., Fernando, S., Birch, T., Burkart, K., Asner, G.P., Olson, D., 2020. A “Global Safety Net” to reverse biodiversity loss and stabilize Earth’s climate. <i>Science Advances</i> 6, eabb2824. https://doi.org/10.1126/sciadv.abb2824
Climate & Carbon	Global Safety Net: Climate Stabilisation Areas Tier 2	Published	NA	No	Dinerstein, E., Joshi, A.R., Vynne, C., Lee, A.T.L., Pharand-Deschênes, F., França, M., Fernando, S., Birch, T., Burkart, K., Asner, G.P., Olson, D., 2020. A “Global Safety Net” to reverse biodiversity loss and stabilize Earth’s climate. <i>Science Advances</i> 6, eabb2824. https://doi.org/10.1126/sciadv.abb2824
Climate & Carbon	GLOSI - Global Soil Organic Carbon	Published	Yes	No	FAO GSP and ITPS, 2019. Global Soil Organic Carbon Map (GSOC map)
Climate & Carbon	Increase in SOC on Croplands After 20 Years	Published	Yes	No	Zomer, R.J., Bossio, D.A., Sommer, R., Verchot, L.V., 2017. Global Sequestration Potential of Increased Organic Carbon in Cropland Soils. <i>Scientific Reports</i> 7, 15554. https://doi.org/10.1038/s41598-017-15794-8
Climate & Carbon	MODIS NDVI 2000 - 2020	Published	Yes	No	Didan, K. (2015). MOD13Q1 MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006 [Data set]. NASA EOSDIS Land Processes DAAC. Accessed 2020-12-07 from https://doi.org/10.5067/MODIS/MOD13Q1.006
Climate & Carbon	NatureMap - Live Biomass Carbon Density	Published	No	No	García-Rangel, S. et al. (In prep) Global distribution of natural carbon stocks potentially vulnerable to land use changes

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Climate & Carbon	NatureMap - Vulnerable Soil Organic Carbon Density	Published	No	No	García-Rangel, S. et al. (In prep) Global distribution of natural carbon stocks potentially vulnerable to land use changes.
Ecosystem Services	Aqueduct Global Database Current - Baseline Water Stress	Published	Yes	No	Gassert, F., M. Landis, M. Luck, P. Reig, and T. Shiao. 2014. Aqueduct Global Maps 2.1. Working Paper. Washington, DC: World Resources Institute. Available online at http://www.wri.org/publication/aqueduct-metadata-global .
Ecosystem Services	City Water Map (CWP) - Watersheds	Published	Yes	No	McDonald, R.I., Weber, K., Padowski, J., Flörke, M., Schneider, C., Green, P.A., Gleeson, T., Eckman, S., Lehner, B., Balk, D., Boucher, T., Grill, G., Montgomery, M., 2014. Water on an urban planet: Urbanization and the reach of urban water infrastructure. <i>Global Environmental Change</i> 27, 96–105. https://doi.org/10.1016/j.gloenvcha.2014.04.022
Ecosystem Services	Coral Reef Shoreline Protection Index	Published	NA	No	NA
Ecosystem Services	Coral Reef Tourism Value	Published	NA	No	Spalding, M., Burke, L., Wood, S.A., Ashpole, J., Hutchison, J., zu Ermgassen, P., 2017. Mapping the global value and distribution of coral reef tourism. <i>Marine Policy</i> 82, 104–113. https://doi.org/10.1016/j.marpol.2017.05.014
Ecosystem Services	Global Wind Atlas: Power Density	Published	Yes	No	[Data/information/map obtained from the] “Global Wind Atlas 3.0, a free, web-based application developed, owned and operated by the Technical University of Denmark (DTU). The Global Wind Atlas 3.0 is released in partnership with the World Bank Group, utilizing data provided by Vortex, using funding provided by the Energy Sector Management Assistance Program (ESMAP). For additional information: https://globalwindatlas.info ”

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Ecosystem Services	MODIS Enhanced Vegetation Index (EVI) Sum 2000-2019	Published	Yes	No	Didan, K. (2015). MOD13Q1 MODIS/Terra Vegetation Indices 16-Day L3 Global 250m SIN Grid V006 [Data set]. NASA EOSDIS Land Processes DAAC. Accessed 2020-02-10 from https://doi.org/10.5067/MODIS/MOD13Q1.006
Ecosystem Services	MODIS Gross Primary Production (GPP)	Published	Yes	No	Running, S., Mu, Q., Zhao, M. (2015). MOD17A2H MODIS/Terra Gross Primary Productivity 8-Day L4 Global 500m SIN Grid V006 [Data set]. NASA EOSDIS Land Processes DAAC. Accessed 2021-01-22 from https://doi.org/10.5067/MODIS/MOD17A2H.006
Ecosystem Services	MODIS Net Primary Production (NPP)	Published	Yes	No	Running, S., Zhao, M. (2019). MOD17A3HGF MODIS/Terra Net Primary Production Gap-Filled Yearly L4 Global 500 m SIN Grid V006 [Data set]. NASA EOSDIS Land Processes DAAC. Accessed 2021-01-25 from https://doi.org/10.5067/MODIS/MOD17A3HGF.006
Ecosystem Services	NatureMap - Potential Clean Water Provision	Published	No	No	Mulligan, M. (2019) Potential Clean Water Provision. Model results from the Costingnature version 3 policy support system (non commercial-use). http://www.policysupport.org/costingnature [prepared by user mark.mulligan_kcl.ac.uk]
Ecosystem Services	NatureMap - Realised Clean water provision	Published	No	No	Mulligan, M. (2019) Relative realised water provisioning services index. Model results from the Costingnature version 3 policy support system (non commercial-use). http://www.policysupport.org/costingnature [prepared by user mark.mulligan_kcl.ac.uk]
Habitats and Biomes	Forest Connectivity	Published	Yes	No	Jantz, P., et al. In Prep. Forest Spatial Morphology Database 1.0. Hansen, M.C., et al. 2013. High-Resolution Global Maps of 21st-Century Forest Cover Change. Science 342, 850–853. DOI: 10.1126/science.1244693. Potapov, P., et al., 2017. The last frontiers of wilderness: Tracking loss of intact forest landscapes from 2000 to 2013. Science Advances 3, e1600821. 10.1126/sciadv.1600821.

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Habitats and Biomes	Forest Fragmentation - 2000	Published	Yes	No	Jantz, P., et al. In Prep. Forest Spatial Morphology Database 1.0. Hansen, M.C., et al. 2013. High-Resolution Global Maps of 21st-Century Forest Cover Change. <i>Science</i> 342, 850–853. DOI: 10.1126/science.1244693. Potapov, P., et al., 2017. The last frontiers of wilderness: Tracking loss of intact forest landscapes from 2000 to 2013. <i>Science Advances</i> 3, e1600821. 10.1126/sciadv.1600821.
Habitats and Biomes	Forest Fragmentation - 2012	Published	Yes	No	Jantz, P., et al. In Prep. Forest Spatial Morphology Database 1.0. Hansen, M.C., et al. 2013. High-Resolution Global Maps of 21st-Century Forest Cover Change. <i>Science</i> 342, 850–853. DOI: 10.1126/science.1244693. Potapov, P., et al., 2017. The last frontiers of wilderness: Tracking loss of intact forest landscapes from 2000 to 2013. <i>Science Advances</i> 3, e1600821. 10.1126/sciadv.1600821.
Habitats and Biomes	Global Forest Cover	Published	Yes	No	Hansen, M.C., Potapov, P.V., Moore, R., Hancher, M., Turubanova, S.A., Tyukavina, A., Thau, D., Stehman, S.V., Goetz, S.J., Loveland, T.R., Kommareddy, A., Egorov, A., Chini, L., Justice, C.O., Townshend, J.R.G., 2013. High-Resolution Global Maps of 21st-Century Forest Cover Change. <i>Science</i> 342, 850–853. https://doi.org/10.1126/science.1244693
Habitats and Biomes	Global Islands Explorer	In Development	Yes	No	USGS/ESRI/WCMC/Island Conservation. (2018). Global Islands Explorer. Retrieved from https://rimgsc.cr.usgs.gov/gie/gie.shtml .
Habitats and Biomes	Global Wetlands: Tropical and Subtropical Wetlands Distribution	Published	Yes	No	Gumbricht, T., Roman-Cuesta, R.M., Verchot, L., Herold, M., Wittmann, F., Householder, E., Herold, N., Murdiyarto, D., 2017. An expert system model for mapping tropical wetlands and peatlands reveals South America as the largest contributor. <i>Global Change Biology</i> 23, 3581–3599. https://doi.org/10.1111/gcb.13689

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Habitats and Biomes	Intact Forest Landscapes (IFLs)	Published	Yes	No	Potapov, P., Hansen, M.C., Laestadius, L., Turubanova, S., Yaroshenko, A., Thies, C., Smith, W., Zhuravleva, I., Komarova, A., Minnemeyer, S., Esipova, E., 2017. The last frontiers of wilderness: Tracking loss of intact forest landscapes from 2000 to 2013. <i>Science Advances</i> 3, e1600821. https://doi.org/10.1126/sciadv.1600821
Habitats and Biomes	NatureMap - Global Habitats	Published	Yes	No	Jung, M., P. R. Dahal, S. H. M. Butchart, P. F. Donald, X. De Lamo, M. Lesiv, V. Kapos, C. Rondinini, and P. Visconti. 2020. A global map of terrestrial habitat types. <i>Scientific Data</i> 7:256. https://doi.org/10.5281/zenodo.3666245
Habitats and Biomes	NatureMap - Global Potential Habitats	Published	Yes	No	Jung, M. (2020). A layer of global potential habitats (Version 004) [Data set]. Zenodo. https://doi.org/10.5281/zenodo.4038749
Human Impact	Crop Suitability 2011-2100	Published	Yes	No	Zabel, F., Putzenlechner, B., Mauser, W., 2014. Global Agricultural Land Resources – A High Resolution Suitability Evaluation and Its Perspectives until 2100 under Climate Change Conditions. <i>PLOS ONE</i> 9, e107522. https://doi.org/10.1371/journal.pone.0107522
Human Impact	Crop Suitability Change 1981-2100	Published	Yes	No	Zabel, F., Putzenlechner, B., Mauser, W., 2014. Global Agricultural Land Resources – A High Resolution Suitability Evaluation and Its Perspectives until 2100 under Climate Change Conditions. <i>PLOS ONE</i> 9, e107522. https://doi.org/10.1371/journal.pone.0107522
Human Impact	DMSP-OLS/VIIRS harmonized global nighttime light dataset 1992 to 2018	Published	Yes	No	Li, X., Zhou, Y., Zhao, M., Zhao, X., 2020. A harmonized global nighttime light dataset 1992–2018. <i>Scientific Data</i> 7, 168. https://doi.org/10.1038/s41597-020-0510-y

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Human Impact	Global Georeferenced Database of Dams (GOODD) - Catchments	Published	Yes	No	Mulligan, M., van Soesbergen, A., Sáenz, L., 2020. GOODD, a global dataset of more than 38,000 georeferenced dams. <i>Scientific Data</i> 7, 31. https://doi.org/10.1038/s41597-020-0362-5
Human Impact	Global Georeferenced Database of Dams (GOODD) - Dams	Published	Yes	No	Mulligan, M., van Soesbergen, A., Sáenz, L., 2020. GOODD, a global dataset of more than 38,000 georeferenced dams. <i>Scientific Data</i> 7, 31. https://doi.org/10.1038/s41597-020-0362-5
Human Impact	Global Map of Irrigated Areas (GMIA)	Published	Yes	No	Siebert, S., Henrich, V., Frenken, K., Burke, J. 2013. Global Map of Irrigation Areas version 5. Rheinische Friedrich-Wilhelms-University, Bonn, Germany / Food and Agriculture Organization of the United Nations, Rome, Italy. Siebert, S., Döll, P., Hoogeveen, J., Faures, J.-M., Frenken, K., Feick, S., 2005. Development and validation of the global map of irrigation areas. <i>Hydrology and Earth System Sciences</i> 9, 535–547. https://doi.org/10.5194/hess-9-535-2005 Döll, P., & Siebert, S. 2000. A digital global map of irrigated areas. <i>Icid Journal</i> , 49(2), 55-66.
Human Impact	Human Footprint Difference 1993,2009 v1	Published	Yes	No	Venter, O., Sanderson, E.W., Magrath, A., Allan, J.R., Beher, J., Jones, K.R., Possingham, H.P., Laurance, W.F., Wood, P., Fekete, B.M., Levy, M.A., Watson, J.E.M., 2016. Sixteen years of change in the global terrestrial human footprint and implications for biodiversity conservation. <i>Nature Communications</i> 7, 12558. https://doi.org/10.1038/ncomms12558

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Human Impact	Human Footprint Difference 2000,2013 v2	Published	Yes	No	Williams, B.A., Venter, O., Allan, J.R., Atkinson, S.C., Rehbein, J.A., Ward, M., Marco, M.D., Grantham, H.S., Ervin, J., Goetz, S.J., Hansen, A.J., Jantz, P., Pillay, R., Rodríguez-Buritica, S., Supples, C., Virnig, A.L.S., Watson, J.E.M., 2020. Change in Terrestrial Human Footprint Drives Continued Loss of Intact Ecosystems. <i>One Earth</i> 3, 371–382. https://doi.org/10.1016/j.oneear.2020.08.009
Human Impact	Human Modification Index	Published	No	No	Theobald, D. M., Kennedy, C., Chen, B., Oakleaf, J., Baruch-Mordo, S., and Kiesecker, J. 2020. Earth transformed: detailed mapping of global human modification from 1990 to 2017, <i>Earth Syst. Sci. Data.</i> , https://doi.org/10.5194/essd-2019-252 .
Human Impact	NatureMap - Human Impact on Forests	Published	No	No	Lesiv, M., Schepaschenko, D., Buchhorn, M., See, L., Duerauer, M., Georgieva, I., ... Blyshchyk, I. (2020). Methodology for generating a global forest management layer. Zenodo. http://doi.org/10.5281/zenodo.3933966
Human Impact	NatureMap - Human Pressures	Published	No	No	UNEP-WCMC (2020). Human pressures on biodiversity, water and carbon. Cambridge, UK.
Human Impact	VIIRS Nightlights 2014-2020	Published	Yes	No	Mills, S., Weiss, S., Liang, C. 2013. VIIRS day/night band (DNB) stray light characterization and correction. Presented at the Proc.SPIE. https://doi.org/10.1117/12.2023107
Human Impact	World Atlas of Desertification (WAD) - Convergence of Evidence	Published	No	No	Cherlet, M., Hutchinson, C., Reynolds, J., Hill, J., Sommer, S., von Maltitz, G. (Eds.), World Atlas of Desertification, Publication Office of the European Union, Luxembourg, 2018. doi:10.2760/06292
Land Cover	ALOS Global Digital Surface Model	Published	Yes	No	Japan Aerospace Exploration Agency (JAXA). ALOS World 3D - 30m (AW3D30).
Land Cover	Dynamic World	In Development	No	No	NatGeo
Land Cover	ESA CCI Land Cover 1993-2018	Published	No	No	European Space Agency Climate Change Initiative, Land Cover project. 2017. 300m Annual Global Land Cover Time Series from 1992 to 2015. Retrieved from http://maps.elie.ucl.ac.be/CCI/viewer/ .

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Land Cover	ESA CCI Land Cover 2015	Published	No	No	European Space Agency Climate Change Initiative, Land Cover project. 2017. 300m Annual Global Land Cover Time Series from 1992 to 2015. Retrieved from http://maps.elie.ucl.ac.be/CCI/viewer/ .
Land Cover	ESA CGLS Land Cover 2015-2019 (100m)	Published	Yes	No	Buchhorn, M., Lesiv, M., Tsendbazar, N.E., Herold, M., Bertels, L., Smets, B. 2020. Copernicus Global Land Cover Layers—Collection 2. Remote Sensing 2020, 12 Volume 108, 1044. doi:10.3390/rs12061044
Land Cover	Global Ecological Coastal Units (ECUs)	In Development	NA	No	Sayre, R., S. Noble, S. Hamann, R. Smith, D. Wright, S. Breyer, K. Butler, K. Van Graafeiland, C. Frye, D. Karagulle, D. Hopkins, D. Stephens, K. Kelly, Z. basher, D. Burton, J. Cress, K. Atkins, D. van Sistine, B. Friesen, B. Allee, T. Allen, P. Aniello, I Asaad, M. Costello, K. Goodin, P. Harris, M. Kavanaugh, H. Lillis, E. Manca, F. Muller-Karger, B. Nyberg, R. Parsons, J. Saarinen, J. Steiner, and A. Reed. 2018. A new 30 meter resolution global shoreline vector and associated global islands database for the development of standardized global ecological coastal units. Journal of Operational Oceanography – A Special Blue Planet Edition. DOI:10.1080/1755876X.2018.1529714.
Marine	Allen Coral Atlas	In Development	No	No	Allen Coral Atlas. 2020. Imagery, maps and monitoring of the worlds tropical coral reefs. Zendodo. DOI: doi.org/10.5281/zenodo.3833242 Lyons, M.B., Roelfsema, C.M., Kennedy, E.V., Kovacs, E.M., Borrego-Acevedo, R., Markey, K., Roe, M., Yuwono, D.M., Harris, D.L., Phinn, S.R., Asner, G.P., Li, J., Knapp, D.E., Fabina, N.S., Larsen, K., Traganos, D., Murray, N.J., 2020. Mapping the world’s coral reefs using a global multiscale earth observation framework. Remote Sensing in Ecology and Conservation 6, 557–568. https://doi.org/10.1002/rse2.157

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Marine	Coral Reef Connectivity	Published	Yes	No	Beyer, H.L., Kennedy, E.V., Wood, S., Puotinen, M., Skirving, W., Hoegh-Guldberg, O. 2019. 50 Reefs Global Coral Ocean Warming, Connectivity and Cyclone Dataset. The University of Queensland. Data Collection. https://doi.org/10.14264/uql.2019.782 . Accessed through UN Biodiversity Lab (date) and Resource Watch. www.resourcewatch.org . Wood, S., Paris, C.B., Ridgwell, A., Hendy, E.J., 2014. Modelling dispersal and connectivity of broadcast spawning corals at the global scale. <i>Global Ecology and Biogeography</i> 23, 1–11. https://doi.org/10.1111/geb.12101
Marine	Cumulative Ocean Impact - 2013_1	Published	Yes	No	Halpern, B.S., Frazier, M., Potapenko, J., Casey, K.S., Koenig, K., Longo, C., Lowndes, J.S., Rockwood, R.C., Selig, E.R., Selkoe, K.A., Walbridge, S., 2015. Spatial and temporal changes in cumulative human impacts on the world's ocean. <i>Nature Communications</i> 6, 7615. https://doi.org/10.1038/ncomms8615
Marine	Global Distribution of Cold-Water Corals	Published	No	No	Freiwald, A., Rogers, A., Hall-Spencer, J., Guinotte, J.M., Davies, A.J., Yesson, C., Martin, C.S., Weatherdon, L.V. 2017. Global distribution of cold-water corals (version 5.0). Fifth update to the dataset in Freiwald et al. (2004) by UNEP-WCMC, in collaboration with Andre Freiwald and John Guinotte. Cambridge (UK): UN Environment World Conservation Monitoring Centre. URL: http://data.unep-wcmc.org/datasets/3

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Marine	Global Distribution of Saltmarshes	Published	No	No	Mcowen C, Weatherdon LV, Bochove J, Sullivan E, Blyth S, Zockler C, Stanwell-Smith D, Kingston N, Martin CS, Spalding M, Fletcher S (2017). A global map of saltmarshes. Biodiversity Data Journal 5: e11764. Paper DOI: https://doi.org/10.3897/BDJ.5.e11764 ; Data URL: http://data.unep-wcmc.org/datasets/43 (v.6)
Marine	Global Distribution of Seagrasses	Published	No	No	UNEP-WCMC, Short FT (2020). Global distribution of seagrasses (version 7.0). Seventh update to the data layer used in Green and Short (2003). Cambridge (UK): UN Environment World Conservation Monitoring Centre. URL: http://data.unep-wcmc.org/datasets/7
Marine	Global Distribution of Warm-Water Coral Reefs	Published	No	No	UNEP-WCMC, WorldFish Centre, WRI, TNC (2018). Global distribution of warm-water coral reefs, compiled from multiple sources including the Millennium Coral Reef Mapping Project. Version 4.0. Includes contributions from IMaRS-USF and IRD (2005), IMaRS-USF (2005) and Spalding et al. (2001). Cambridge (UK): UN Environment World Conservation Monitoring Centre. URL: http://data.unep-wcmc.org/datasets/1
Marine	Global Ecological Marine Units (EMUs) - prototype	In Development	NA	No	To be confirmed. https://livingatlas.arcgis.com/emu/?lat=-79.33473133174152&lng=-69.37363509076536&zoom=6
Marine	Global Fishing Watch: Annual Fishing Hours 2016	Published	NA	No	Kroodsma, D.A., Mayorga, J., Hochberg, T., Miller, N.A., Boerder, K., Ferretti, F., Wilson, A., Bergman, B., White, T.D., Block, B.A., Woods, P., Sullivan, B., Costello, C., Worm, B., 2018. Tracking the global footprint of fisheries. <i>Science</i> 359, 904–908. https://doi.org/10.1126/science.aao5646

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Marine	Global Intertidal Change	Published	Yes	No	Murray, N.J., Phinn, S.R., DeWitt, M., Ferrari, R., Johnston, R., Lyons, M.B., Clinton, N., Thau, D., Fuller, R.A., 2019. The global distribution and trajectory of tidal flats. <i>Nature</i> 565, 222. https://doi.org/10.1038/s41586-018-0805-8
Marine	Global Surface Water - Maximum Water Extent 1984-2018	Published	No	No	Pekel, J.-F., Cottam, A., Gorelick, N., Belward, A.S., 2016. High-resolution mapping of global surface water and its long-term changes. <i>Nature</i> 540, 418–422. https://doi.org/10.1038/nature20584
Marine	Global Surface Water - Occurrence 1984-2018	Published	No	No	Pekel, J.-F., Cottam, A., Gorelick, N., Belward, A.S., 2016. High-resolution mapping of global surface water and its long-term changes. <i>Nature</i> 540, 418–422. https://doi.org/10.1038/nature20584
Marine	Global Surface Water - Occurrence Change Intensity 1984-2018	Published	No	No	Pekel, J.-F., Cottam, A., Gorelick, N., Belward, A.S., 2016. High-resolution mapping of global surface water and its long-term changes. <i>Nature</i> 540, 418–422. https://doi.org/10.1038/nature20584
Marine	Global Surface Water - Recurrence 1984-2018	Published	No	No	Pekel, J.-F., Cottam, A., Gorelick, N., Belward, A.S., 2016. High-resolution mapping of global surface water and its long-term changes. <i>Nature</i> 540, 418–422. https://doi.org/10.1038/nature20584
Marine	Global Surface Water - Seasonality 2014-2018	Published	No	No	Pekel, J.-F., Cottam, A., Gorelick, N., Belward, A.S., 2016. High-resolution mapping of global surface water and its long-term changes. <i>Nature</i> 540, 418–422. https://doi.org/10.1038/nature20584
Marine	Global Surface Water - Transitions 2000-2018 (SDG 6.6.1 Indicator)	Published	No	No	Pekel, J.-F., Cottam, A., Gorelick, N., Belward, A.S., 2016. High-resolution mapping of global surface water and its long-term changes. <i>Nature</i> 540, 418–422. https://doi.org/10.1038/nature20584

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Marine	Marine Ecoregions of the World (MEOW)	Published	Yes	No	Spalding, M.D., Fox, H.E., Allen, G.R., Davidson, N., Ferdaña, Z.A., Finlayson, M., Halpern, B.S., Jorge, M.A., Lombana, A., Lourie, S.A., Martin, K.D., McManus, E., Molnar, J., Recchia, C.A., Robertson, J., 2007. Marine Ecoregions of the World: A Bioregionalization of Coastal and Shelf Areas. <i>BioScience</i> 57, 573–583. https://doi.org/10.1641/B570707
Marine	Marine Pollution Index	Published	Yes	No	Halpern, B.S., Frazier, M., Potapenko, J., Casey, K.S., Koenig, K., Longo, C., Lowndes, J.S., Rockwood, R.C., Selig, E.R., Selkoe, K.A., Walbridge, S., 2015. Spatial and temporal changes in cumulative human impacts on the world’s ocean. <i>Nature Communications</i> 6, 7615. https://doi.org/10.1038/ncomms8615
Marine	Pelagic Provinces of the world (PPOW)	Published	No	No	Spalding, M.D., Agostini, V.N., Rice, J., Grant, S.M., 2012. Pelagic provinces of the world: A biogeographic classification of the world’s surface pelagic waters. <i>Ocean & Coastal Management</i> 60, 19–30. https://doi.org/10.1016/j.ocecoaman.2011.12.016
Natural Hazards	MODIS Active Fires - All Fires	Published	Yes	No	NASA Near Real-Time and MCD14DL MODIS Active Fire Detections (WMS format). Data set. Available online [https://earthdata.nasa.gov/active-fire-data]
Protected and Conserved Areas	Marine Protected Areas	Published	No	No	UNEP-WCMC, 2021. The World Database on Protected Areas (WDPA) [On-line]. Available at: www.protectedplanet.net .
Protected and Conserved Areas	Protected Area Connectivity (ProtConn)	Published	Yes	No	Saura, S., Bertzky, B., Bastin, L., Battistella, L., Mandrici, A., Dubois, G., 2018. Protected area connectivity: Shortfalls in global targets and country-level priorities. <i>Biological Conservation</i> 219, 53–67. https://doi.org/10.1016/j.biocon.2017.12.020

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Protected and Conserved Areas	Protected Areas Management Effectiveness (PAME)	In Development	No	No	Hockings, M., Stolton, S., Leverington, F., Dudley, N., Courrau, J. 2006. Evaluating Effectiveness: A framework for assessing management effectiveness of protected areas. 2nd edition. IUCN, Gland, Switzerland and Cambridge, UK. xiv + 105 pp. Geldmann, J., Coad, L., Barnes, M., Craigie, I.D., Hockings, M., Knights, K., Leverington, F., Cuadros, I.C., Zamora, C., Woodley, S., Burgess, N.D., 2015. Changes in protected area management effectiveness over time: A global analysis. <i>Biological Conservation</i> 191, 692–699. https://doi.org/10.1016/j.biocon.2015.08.029 Leverington, F., Costa, K.L., Pavese, H., Lisle, A., Hockings, M., 2010. A Global Analysis of Protected Area Management Effectiveness. <i>Environmental Management</i> 46, 685–698. https://doi.org/10.1007/s00267-010-9564-5
Protected and Conserved Areas	Protected Planet®: World Database on Other Effective Area-based Conservation Measures (WD-OECM)	In Development	No	No	NA
Protected and Conserved Areas	Terrestrial Protected Areas	Published	No	No	UNEP-WCMC, 2021. The World Database on Protected Areas (WDPA) [On-line]. Available at: www.protectedplanet.net .
Protected and Conserved Areas	UNESCO Biosphere Reserves	Published	NA	No	UNEP-WCMC, 2021. The World Database on Protected Areas (WDPA) [On-line]. Available at: www.protectedplanet.net .
Protected and Conserved Areas	UNESCO World Heritage Sites	Published	NA	No	UNESCO World Heritage Centre, (2020). World Heritage List. Retrieved from https://whc.unesco.org/en/list/ .

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Protected and Conserved Areas	World Database on Protected Areas	Published	No	No	UNEP-WCMC and IUCN (2020), Protected Planet: The World Database on Protected Areas (WDPA) [On-line], [insert month/year of the version used], Cambridge, UK: UNEP-WCMC and IUCN Available at: www.protectedplanet.net .
Socio-Economic	Accessibility to Cities (2015)	Published	Yes	No	Weiss, D. J. et al. 2018. A global map of travel time to cities to assess inequalities in accessibility in 2015. <i>Nature</i> , 553(7688), pp. 333–336. doi: 10.1038/nature25181.
Socio-Economic	Global Grid of Probabilities of Urban Expansion to 2030	Published	Yes	No	Seto, K.C., Güneralp, B., Hutyrá, L.R., 2012. Global forecasts of urban expansion to 2030 and direct impacts on biodiversity and carbon pools. <i>PNAS</i> 109, 16083–16088. https://doi.org/10.1073/pnas.1211658109
Socio-Economic	Global Solar Atlas: Yearly Average Potential Photovoltaic Electricity Production	Published	Yes	No	ESMAP. 2020. Global Photovoltaic Power Potential by Country. Washington, DC: World Bank. https://globalsolaratlas.info Global Solar Atlas 2.0 : Technical Report (English). Energy Sector Management Assistance Program Washington, D.C. : World Bank Group. http://documents.worldbank.org/curated/en/529431592Solar-Atlas-2-0-Technical-Report
Socio-Economic	Global subnational infant mortality rates (2015)	Published	Yes	No	Center for International Earth Science Information Network - CIESIN - Columbia University. 2005. Poverty Mapping Project: Global Subnational Infant Mortality Rates. Palisades, NY: NASA Socioeconomic Data and Applications Center (SEDAC). http://dx.doi.org/10.7927/H4PZ56R2 .
Socio-Economic	Gridded Livestock of the World 3 (GLW3)	Published	Yes	No	Gilbert, M., Nicolas, G., Cinardi, G., Van Boeckel, T.P., Vanwambeke, S.O., Wint, G.R.W., Robinson, T.P., 2018. Global distribution data for cattle, buffaloes, horses, sheep, goats, pigs, chickens and ducks in 2010. <i>Scientific Data</i> 5, 180227. https://doi.org/10.1038/sdata.2018.227

Table 1: UN Biodiversity Lab Data List (*continued*)

Category	Data Name	Status	Download?	Time Series?	Citation(s)
Socio-Economic	WorldPop: Estimated Residential Population 2000-2020	Published	Yes	No	Americas population data: Sorichetta, A., Hornby, G.M., Stevens, F.R., Gaughan, A.E., Linard, C., Tatem, A.J., 2015. High-resolution gridded population datasets for Latin America and the Caribbean in 2010, 2015, and 2020. <i>Scientific Data</i> 2, 150045. https://doi.org/10.1038/sdata.2015.45 Africa population count data: Linard, C., Gilbert, M., Snow, R.W., Noor, A.M., Tatem, A.J., 2012. Population Distribution, Settlement Patterns and Accessibility across Africa in 2010. <i>PLOS ONE</i> 7, e31743. https://doi.org/10.1371/journal.pone.0031743 Asia population count data: Gaughan, A.E., Stevens, F.R., Linard, C., Jia, P., Tatem, A.J., 2013. High Resolution Population Distribution Maps for Southeast Asia in 2010 and 2015. <i>PLOS ONE</i> 8, e55882. https://doi.org/10.1371/journal.pone.0055882

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