National Aeronautics and Space Administration

Using the UN Biodiversity Lab to Monitor the Pulse of the Planet

Amber McCullum, Juan Torres-Pérez, Annie Virnig, Osgur McDermott-Long, Nicole Desantis, Di Zhang

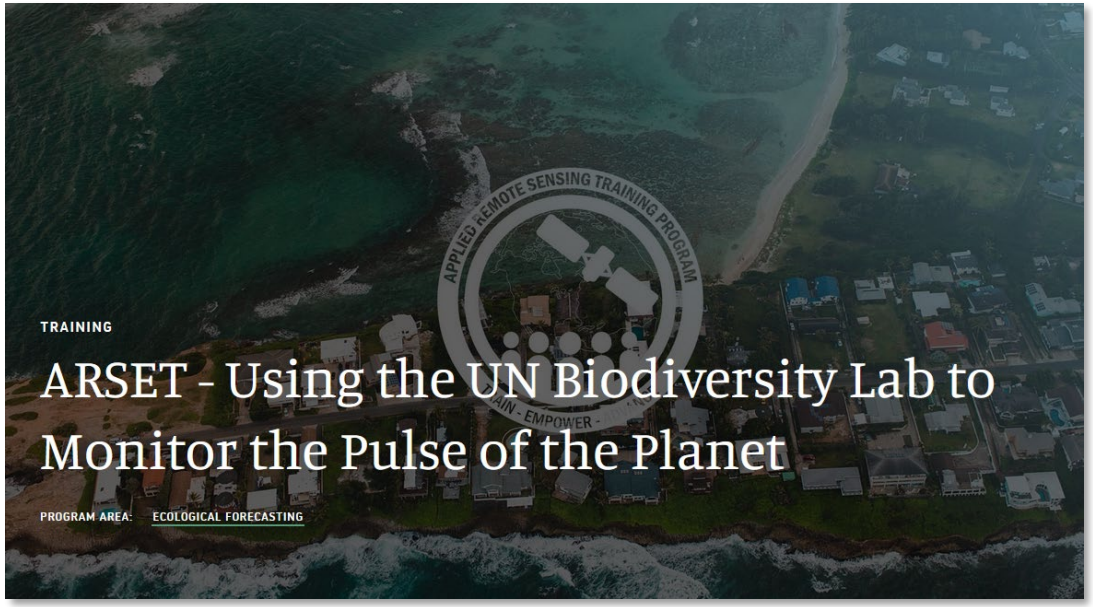
April 21, 2022

Course Structure

- **Three intermediate sessions**
  - Intermediate sessions will be held on **April 14, 21,** and **28**
  - For the intermediate sessions, there will be 3 sessions per day presenting the same material in:
    - English (9:00-10:30 EDT)
    - French (11:00-12:30 EDT)
    - Spanish (15:00-16:30 EDT)
- **Two advanced labs**
  - Advanced labs will be held on **April 27** and **May 4**
  - Please register for these separately via the course website
  - Offered in English with simultaneous interpretation to French and Spanish
  - The lab sessions will be limited to 150 participants

Course Materials and Q&A

- Webinar recordings, PowerPoint presentations, and the homework assignment can be found after each session at:
  - https://appliedsciences.nasa.gov/join-mission/training/english/arset-using-un-biodiversity-lab-monitor-pulse-planet
- Q&A: Following each lecture and/or by email:
  - amberjean.mccullum@nasa.gov
  - juan.l.torresperez@nasa.gov
  - anne.virnig@undp.org



Homework and Certificates

Intermediate Sessions

- **Homework:**
  - One homework assignment for the intermediate sessions submitted via Google Forms
    - Available on training website
- **Certificate of Completion:**
  - Attend all three live intermediate webinars
  - Complete the homework assignment by **Thursday, May 12**
  - You will receive certificates approximately two months after completion of the course from: marines.martins@ssaihq.com

Advanced Sessions

- **Final Assignment for Each Lab**
  - Submitted to UNDP after session
- **Certificate of Completion**
  - Attend the live webinar and submit the assignment
  - Details provided in each advanced lab session

Course Outline (Intermediate Sessions)

Part 1: Using UN Biodiversity Lab to Support Country-Led Action on Biodiversity and Sustainable Development

- NASA satellites and sensors
- Global policy context
- UNBL basic functionalities
- Country case studies

Part 2: Exploring the UN Biodiversity Lab Public Platform

- UNBL recap
- Data products and tools
- UNBL public platform functionalities

Part 3: Exploring UN Biodiversity Lab Secure Workspaces

- UNBL workspace functionalities
- Essential life support areas and future functionalities

Course Outline (Advanced Labs)

Advanced Lab 1: Mastering the UNBL Public Platform

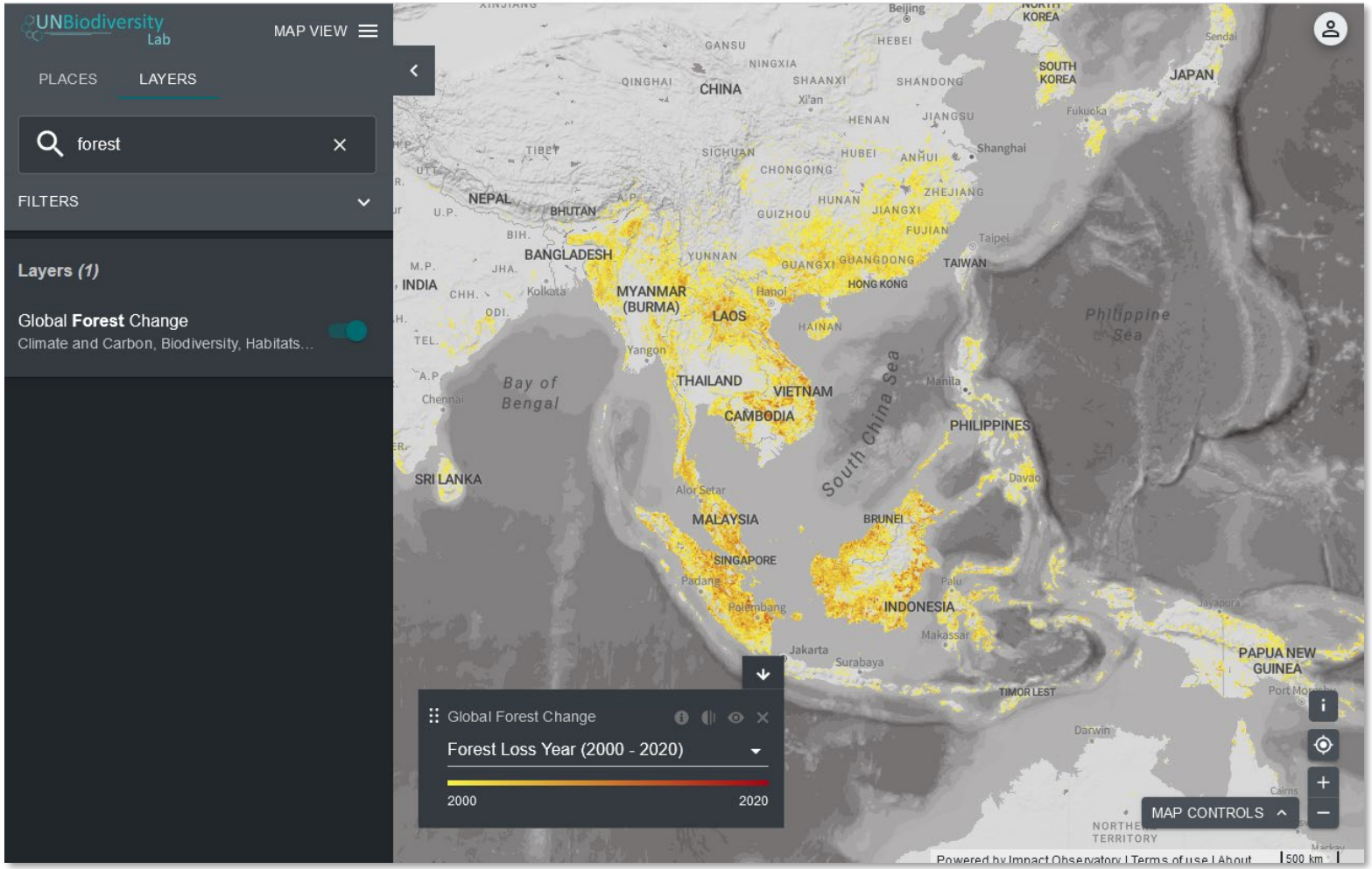
- Deep dive on UNBL public platform functionalities
- Independent exercise on the use of public platform

Advanced Lab 2: Mastering UNBL Secure Workspaces

- Deep dive on UNBL secure workspace functionalities
  - Add users and assign privileges
  - Upload data layers
  - Calculate dynamics
- Independent exercise on the use of secure workspaces

Part 2 Agenda

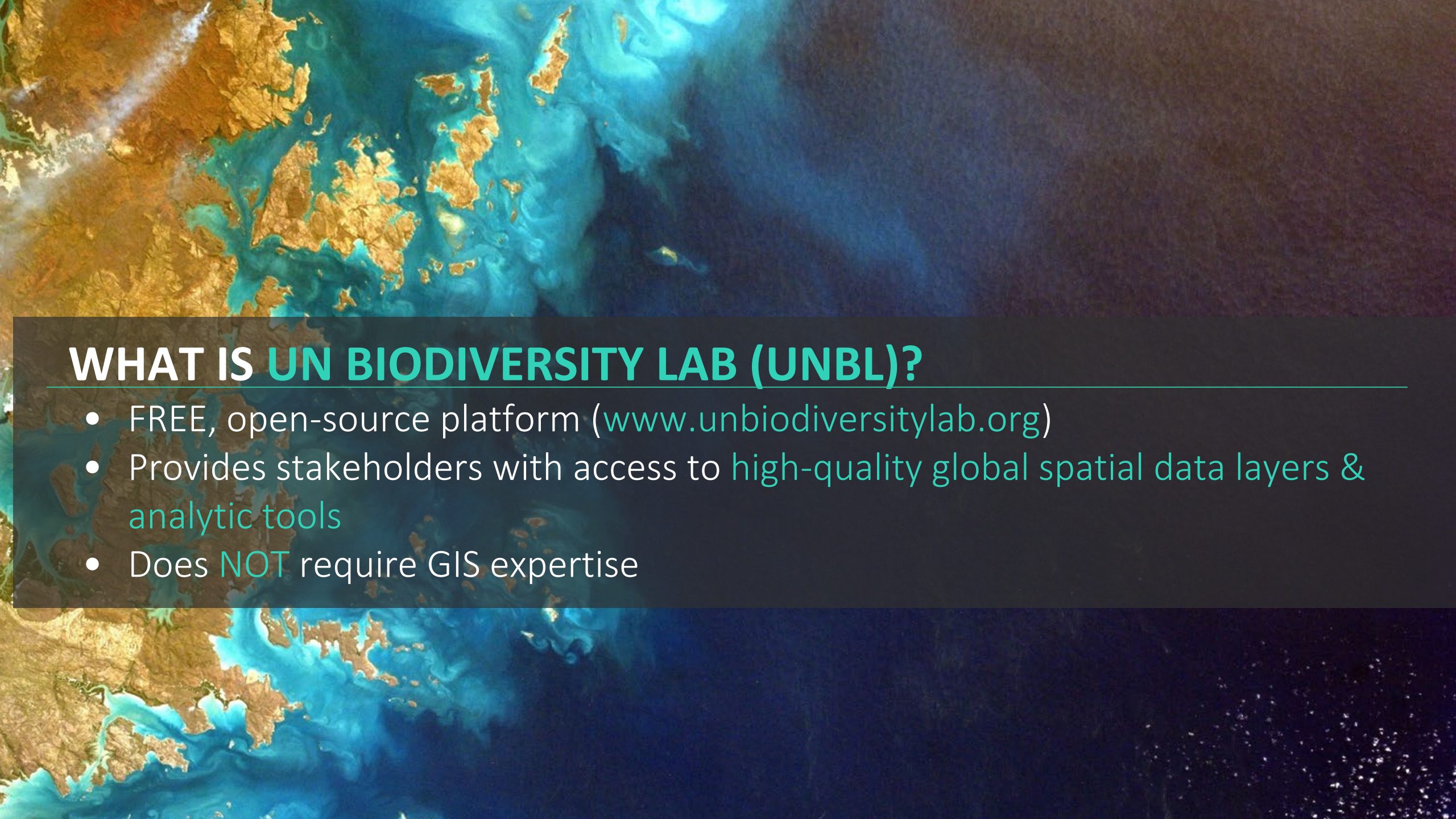
- Recap – What is UNBL?
- UNBL Data
- UNBL Data Collections
- UNBL Public Platform Functionalities
- Q&A Session



Recap: What is UNBL?

RECAP | WHAT IS UNBL?

Anne Virnig, UNDP



WHAT IS UN BIODIVERSITY LAB (UNBL)?

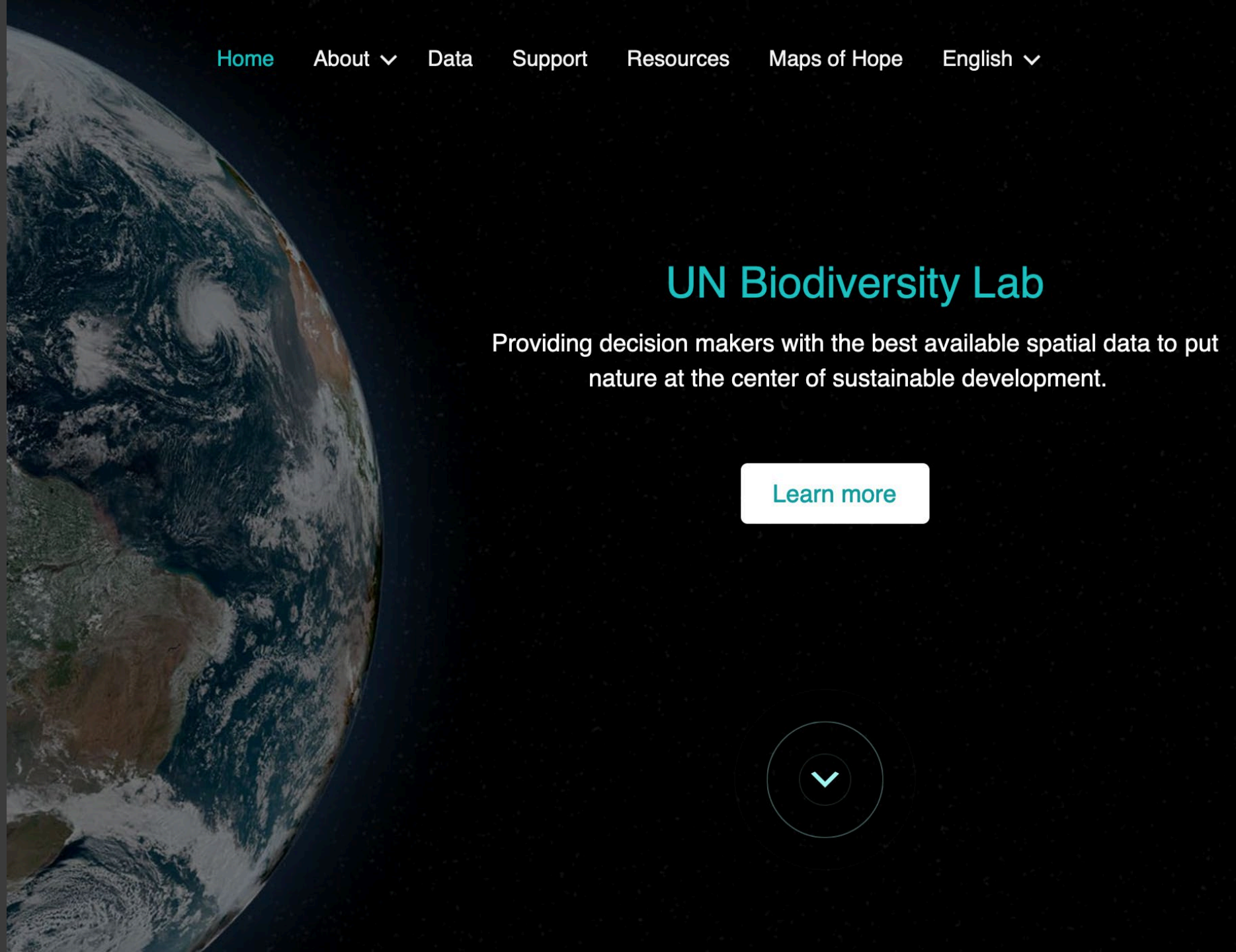
- FREE, open-source platform (www.unbiodiversitylab.org)
- Provides stakeholders with access to high-quality global spatial data layers & analytic tools
- Does NOT require GIS expertise

A TRUSTED PLATFORM FOR COMMITMENTS TO THE CBD

- Initially created in 2018
- Led to a 2X increase in the number of maps between the 5NR and 6NR
- UNBL 2.0: Planning, implementation, and monitoring for the post-2020 global biodiversity framework

Photo | IISD Francis Dejon

INTRODUCING
UNBL 2.0...



OVERALL | WHAT'S NEW?

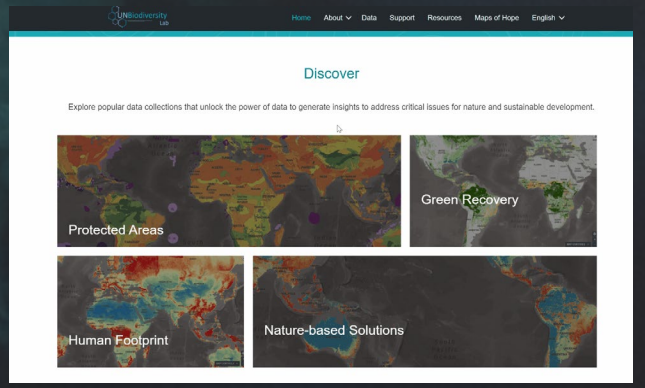
- Enhanced usability & modern web app design
- Fully available in English, French, Portuguese, Russian, and Spanish
- API to enable seamless integration with other solutions

CORE FEATURES | WHAT'S NEW?

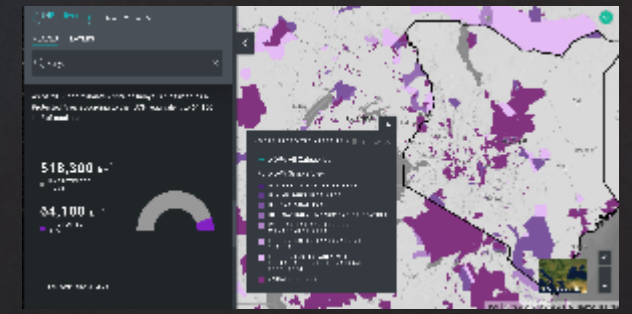
1. Data catalogue now offering over 400 layers *(Updated)*
2. Data collections to generate insight for action *(New)*
3. Analytics to calculate key metrics for any country *(New)*
4. Secure workspaces available to ANY not-for-profit actors *(Expanded)*
5. Create maps for your country *(Updated)*
6. Map Essential Life Support Areas (Coming in 2022!) *(New)*

UN BIODIVERSITY LAB | 6 KEY FEATURES

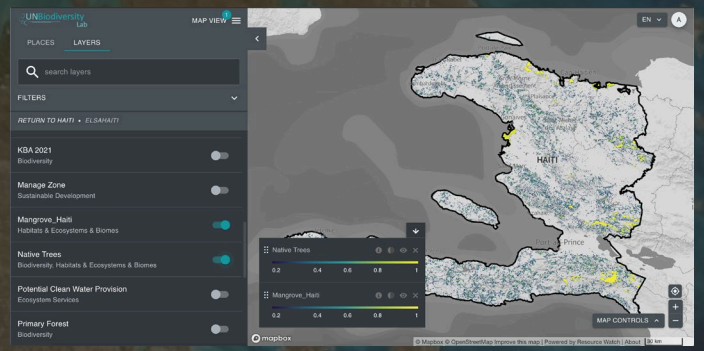
1. Access >400 global layers



2. Explore data collections

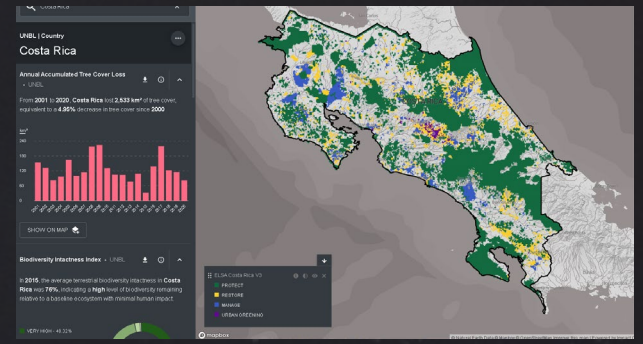


3. Calculate dynamic metrics



4. Create secure workspaces

5. Create maps



6. Map Essential Life Support Areas

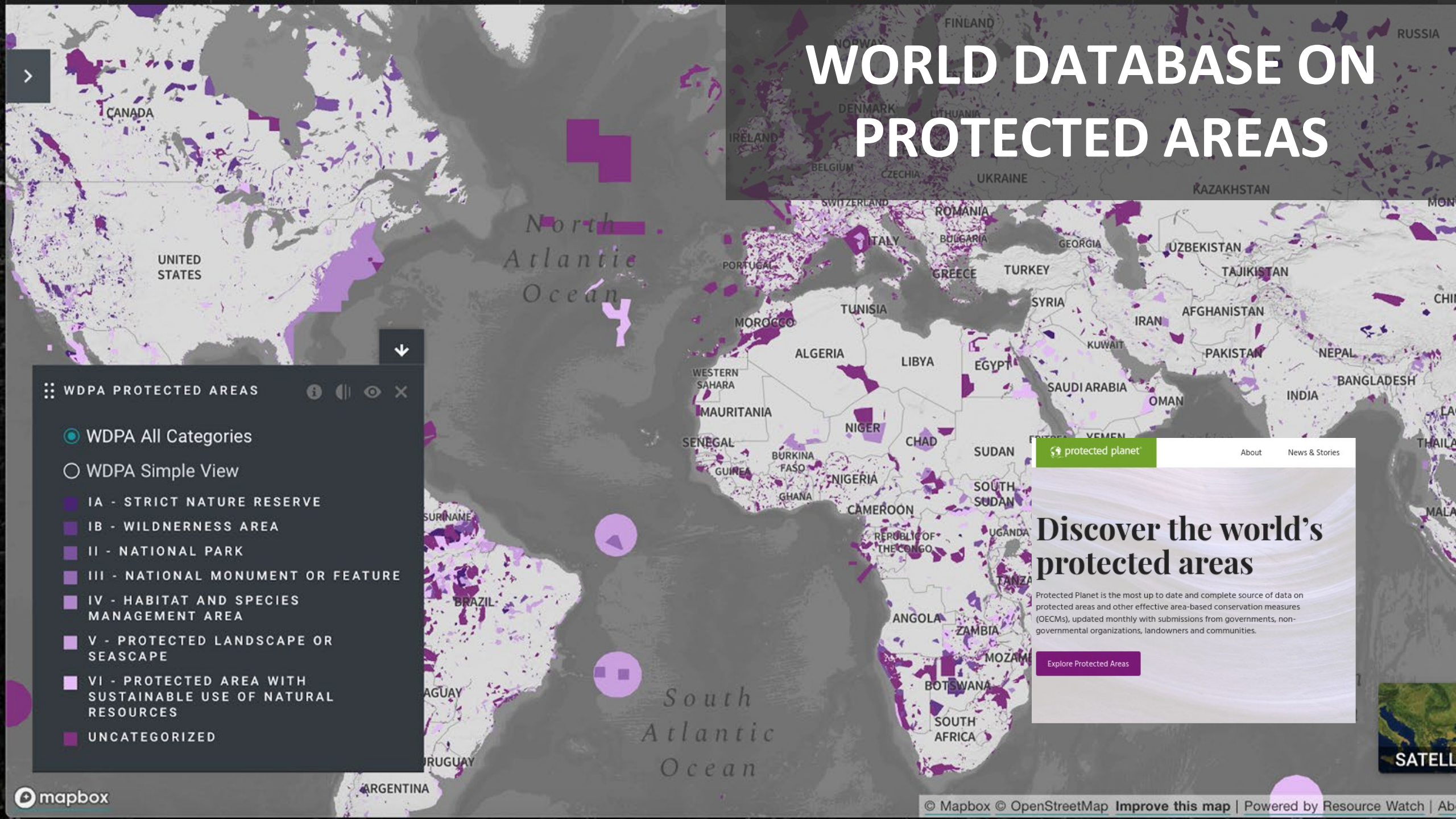
UNBL Data

INTRODUCTION TO UNBL DATA

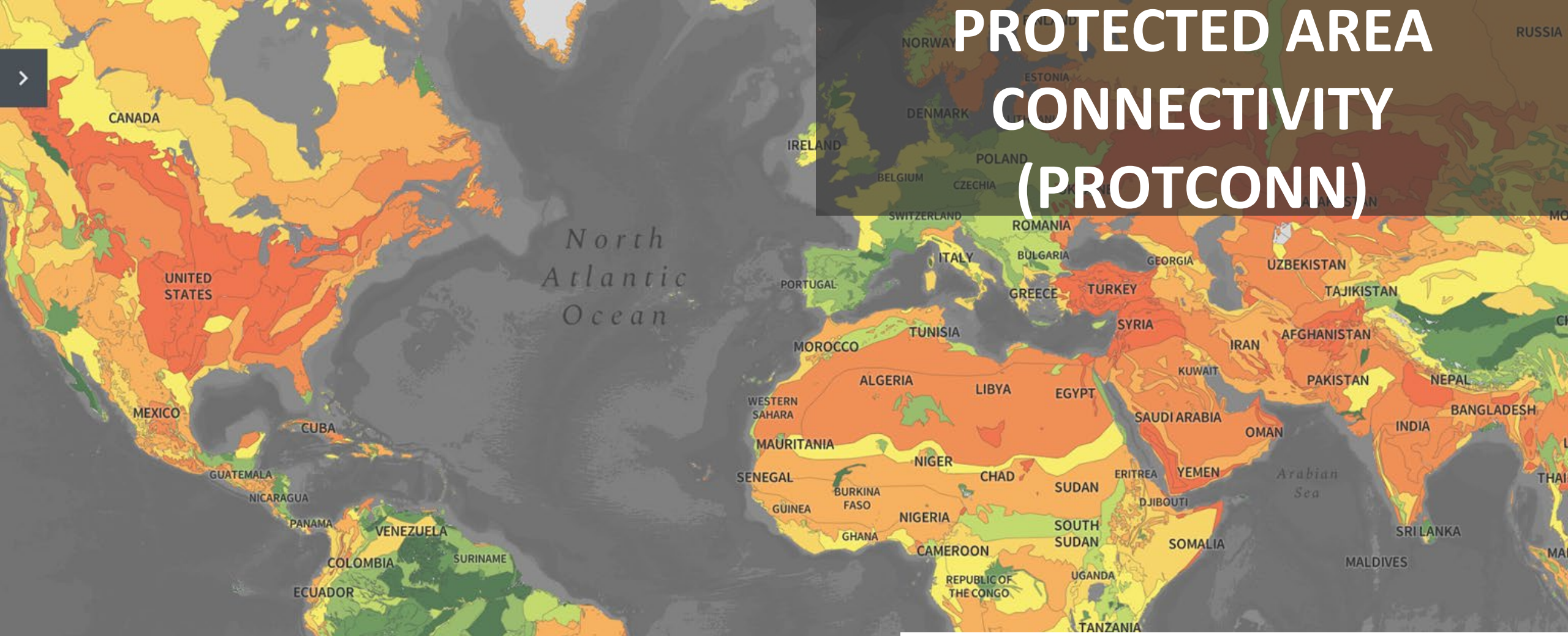
Osgur McDermott-Long, UNEP-WCMC

SNAPSHOT | PROTECTED AREAS DATA

WORLD DATABASE ON PROTECTED AREAS



PROTECTED AREA CONNECTIVITY (PROTCONN)



Contents lists available at ScienceDirect

Ecological Indicators

journal homepage: www.elsevier.com/locate/ecolind

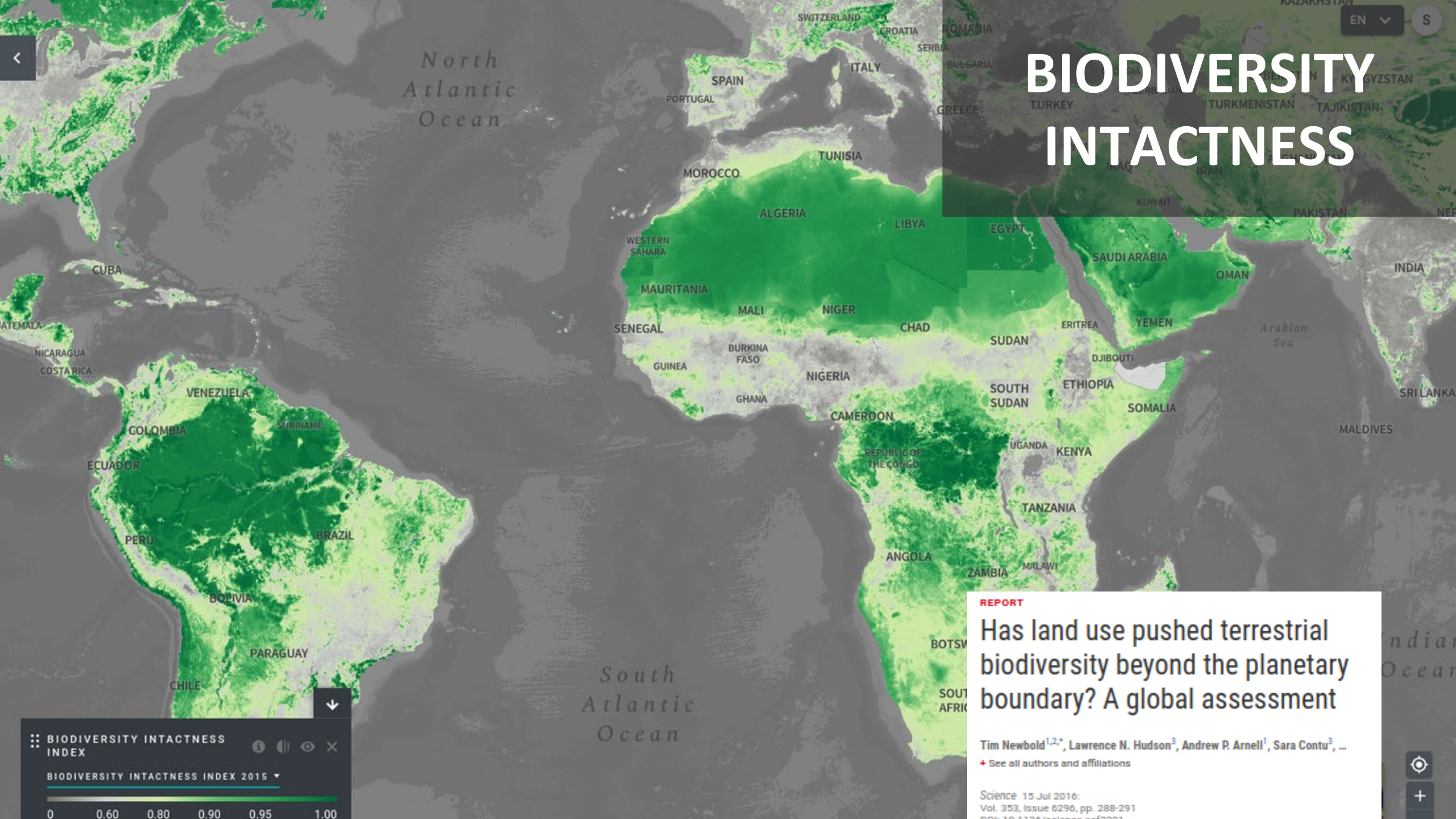
Protected areas in the world's ecoregions: How well connected are they?

Santiago Saura*, Lucy Bastin, Luca Battistella, Andrea Mandrici, Grégoire Dubois

European Commission, Joint Research Centre (JRC), Directorate D: Sustainable Resources, Via E. Fermi 2749, I-21027 Ispra, VA, Italy


SNAPSHOT | BIODIVERSITY DATA

BIODIVERSITY INTACTNESS



REPORT

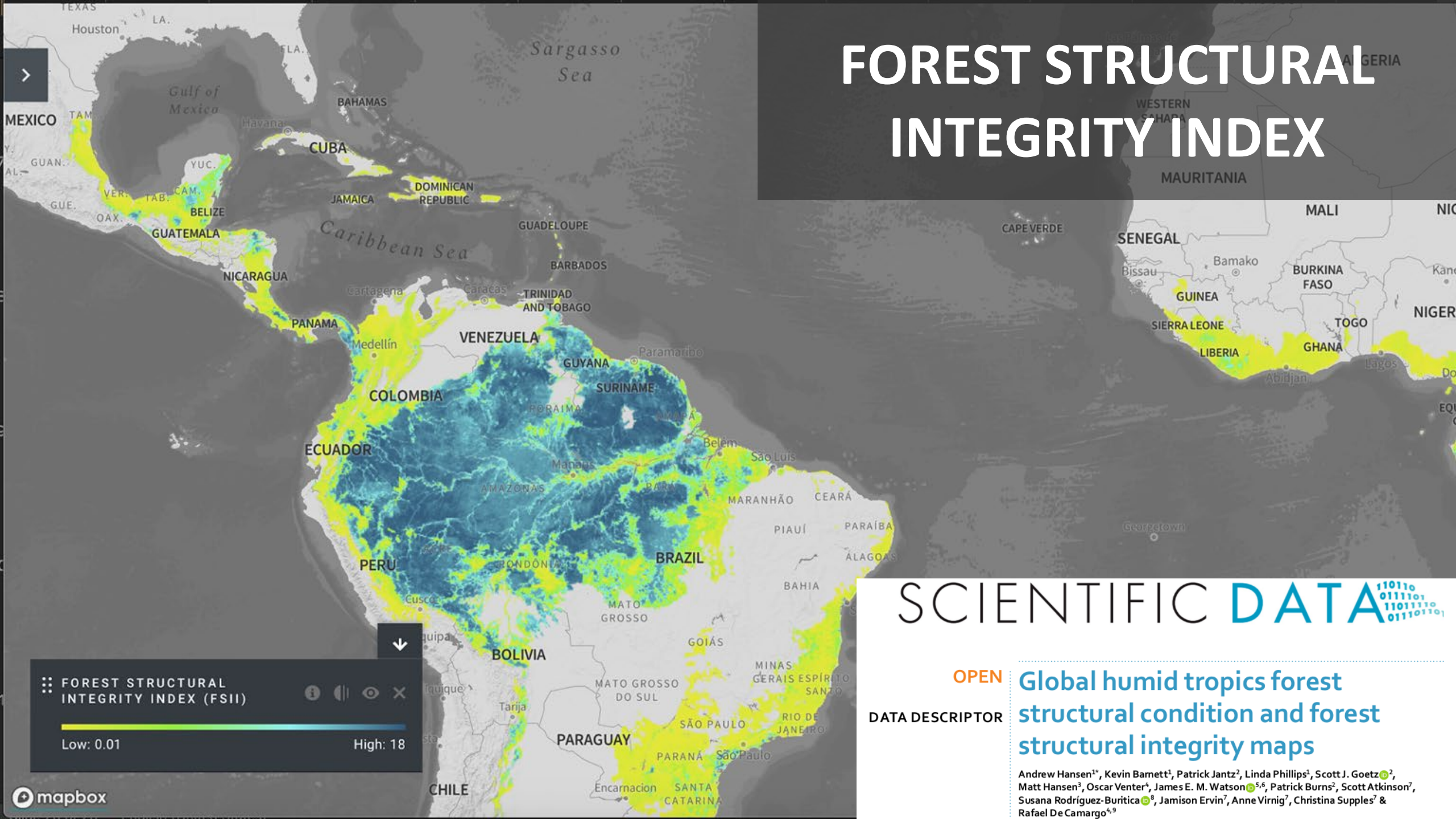
Has land use pushed terrestrial biodiversity beyond the planetary boundary? A global assessment

Tim Newbold[1,2,*], Lawrence N. Hudson[3], Andrew P. Arnell[1], Sara Contu[3], ...

+ See all authors and affiliations

Science 15 Jul 2016:
Vol. 353, Issue 6296, pp. 288-291

FOREST STRUCTURAL INTEGRITY INDEX



SCIENTIFIC DATA

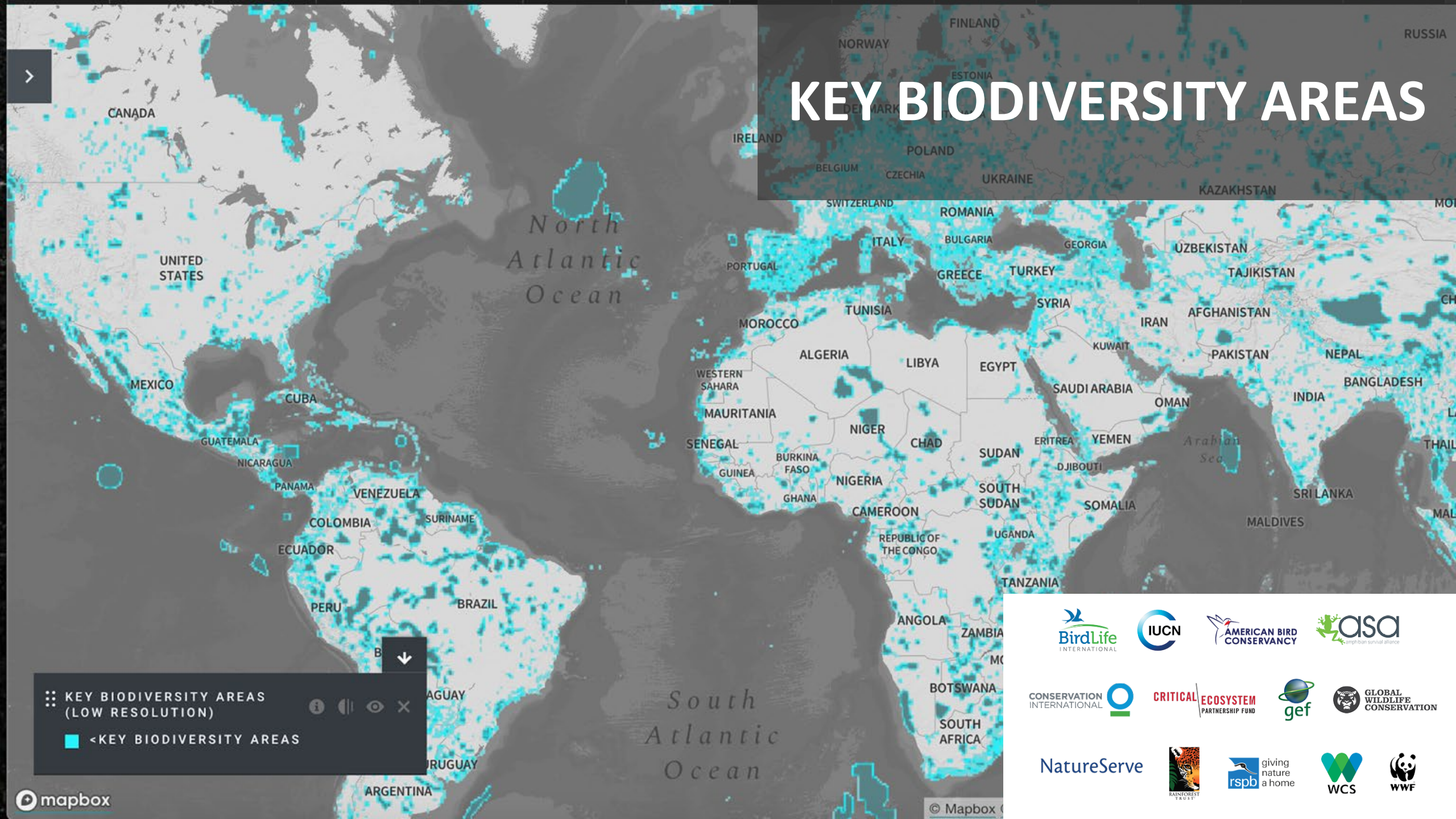
OPEN

DATA DESCRIPTOR

Global humid tropics forest structural condition and forest structural integrity maps

Andrew Hansen[1*], Kevin Barnett[1], Patrick Jantz[2], Linda Phillips[1], Scott J. Goetz[2], Matt Hansen[3], Oscar Venter[4], James E. M. Watson[5,6], Patrick Burns[2], Scott Atkinson[7], Susana Rodríguez-Buritica[8], Jamison Ervin[7], Anne Virnig[7], Christina Supples[7] & Rafael De Camargo[4,9]

KEY BIODIVERSITY AREAS

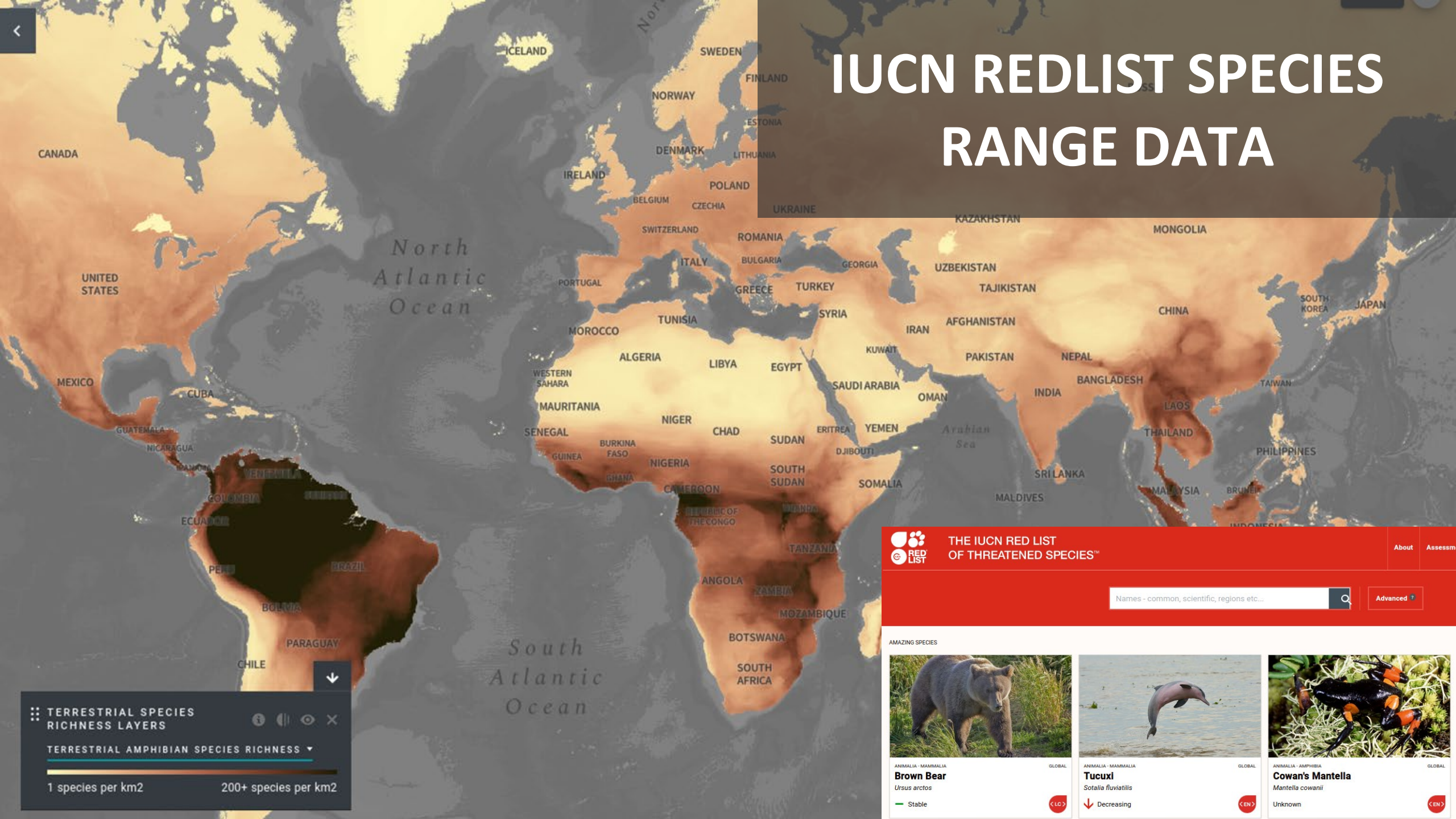


BirdLife INTERNATIONAL · IUCN · AMERICAN BIRD CONSERVANCY · asa amphibian survival alliance

CONSERVATION INTERNATIONAL · CRITICAL ECOSYSTEM PARTNERSHIP FUND · gef · GLOBAL WILDLIFE CONSERVATION

NatureServe · RAINFOREST TRUST · rspb giving nature a home · WCS · WWF

IUCN REDLIST SPECIES RANGE DATA



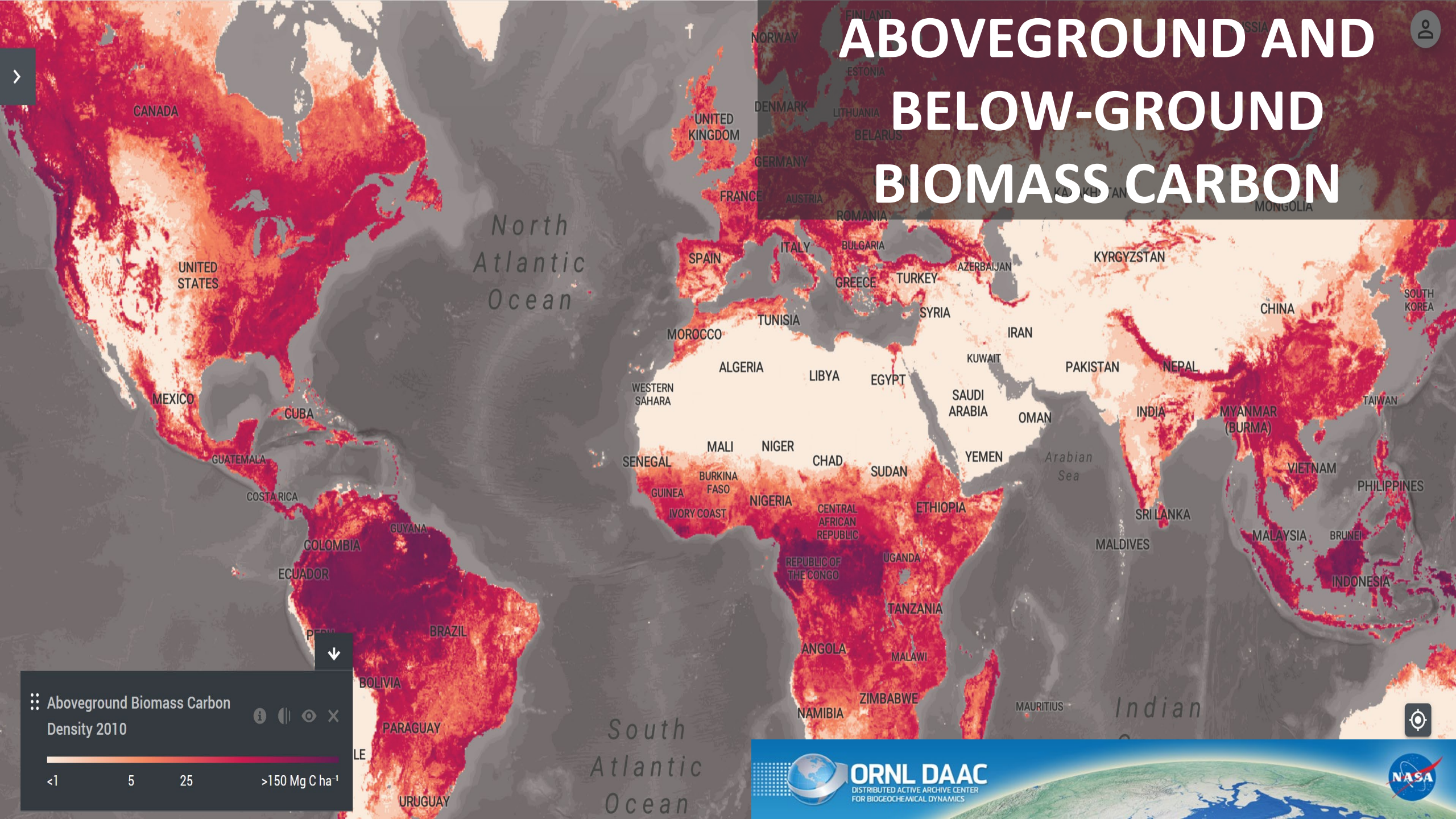
TERRESTRIAL SPECIES RICHNESS LAYERS

TERRESTRIAL AMPHIBIAN SPECIES RICHNESS

1 species per km2 — 200+ species per km2

SNAPSHOT | CLIMATE CHANGE & CARBON DATA

ABOVEGROUND AND BELOW-GROUND BIOMASS CARBON

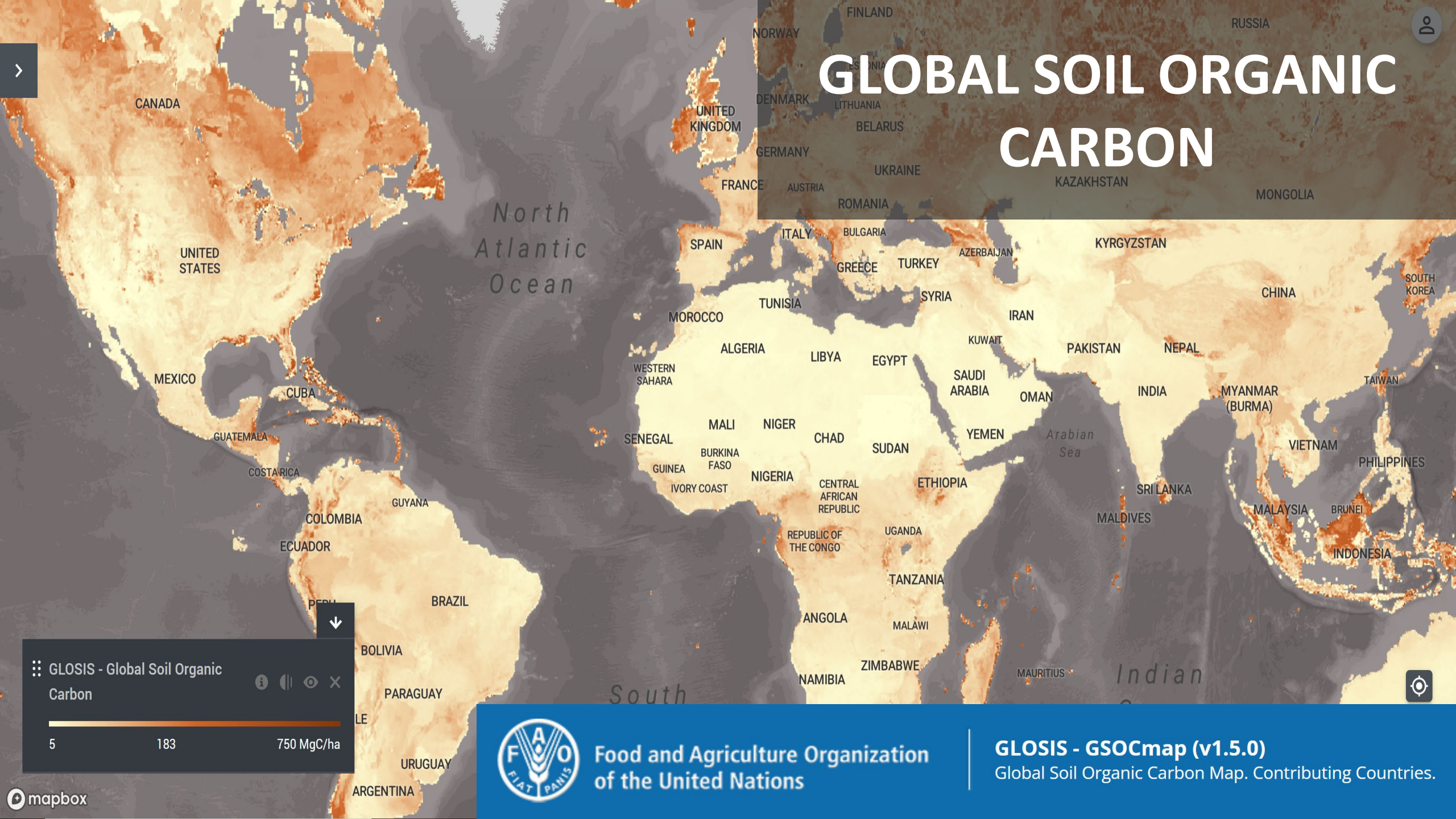


Aboveground Biomass Carbon Density 2010

<1 5 25 >150 Mg C ha^{-1}

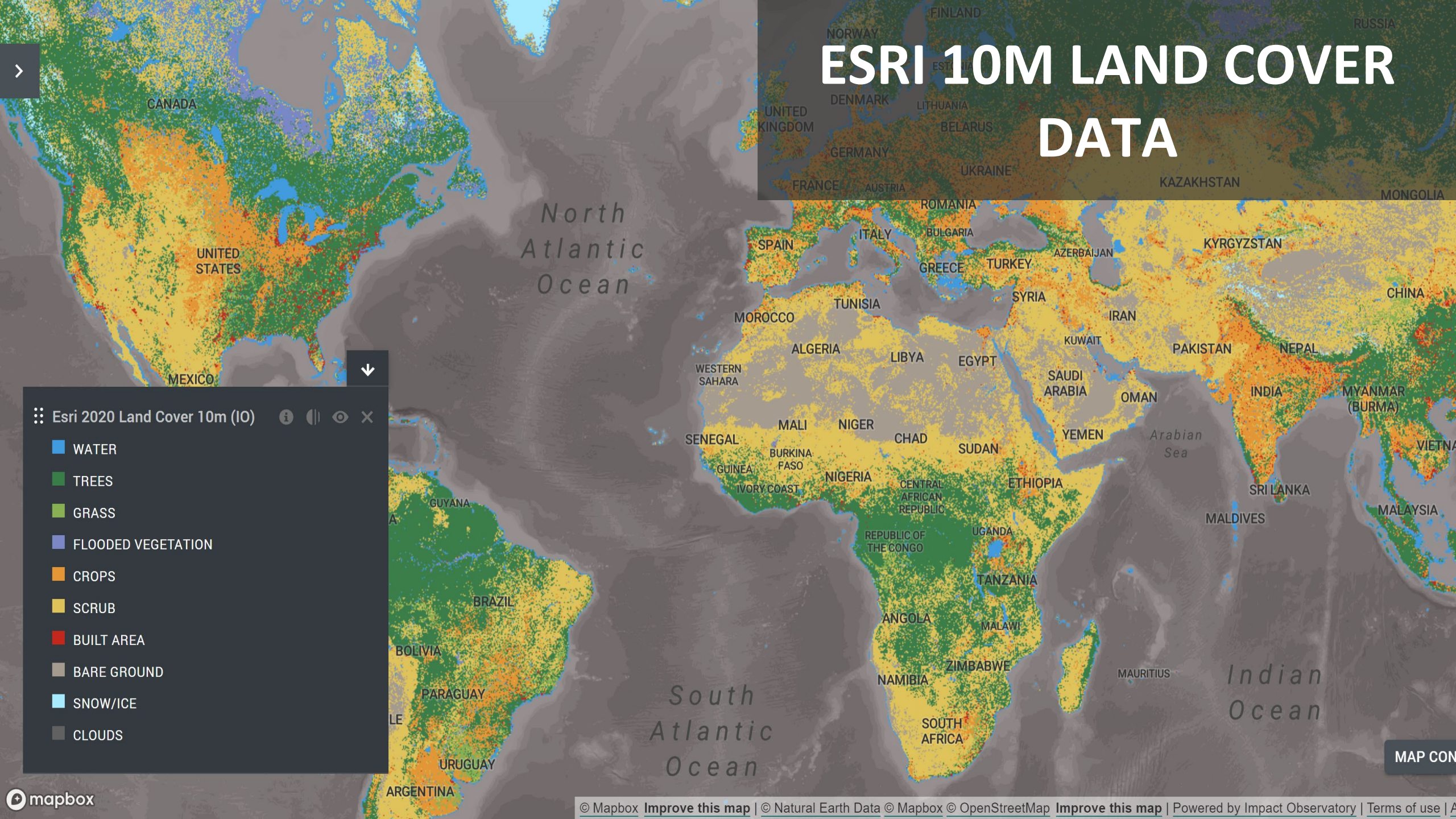
ORNL DAAC
DISTRIBUTED ACTIVE ARCHIVE CENTER FOR BIOGEOCHEMICAL DYNAMICS

NASA

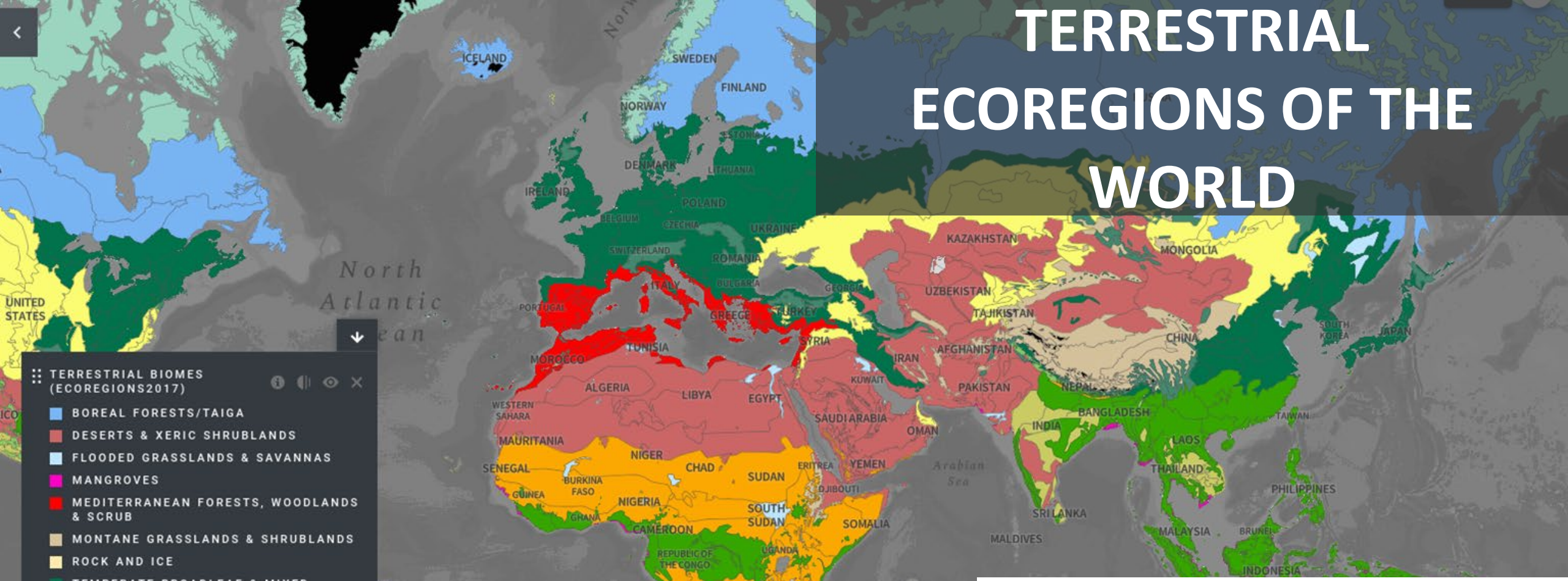

GLOBAL SOIL ORGANIC CARBON
GLOSIS - Global Soil Organic Carbon
5
183
750 MgC/ha
Food and Agriculture Organization of the United Nations
GLOSIS - GSOCmap (v1.5.0)
Global Soil Organic Carbon Map. Contributing Countries.
mapbox

SNAPSHOT | ECOSYSTEMS & LAND COVER DATA

ESRI 10M LAND COVER DATA



TERRESTRIAL ECOREGIONS OF THE WORLD



An Ecoregion-Based Approach to Protecting Half the Terrestrial Realm

ERIC DINERSTEIN, DAVID OLSON, ANUP JOSHI, CARLY VYNNE, NEIL D. BURGESS, ERIC WIKRAMANAYAKE, NATHAN HAHN, SUZANNE PALMINTERI, PRASHANT HEDAO, REED NOSS, MATT HANSEN, HARVEY LOCKE, ERLE C ELLIS, BENJAMIN JONES, CHARLES VICTOR BARBER, RANDY HAYES, CYRIL KORMOS, VANCE MARTIN, EILEEN CRIST, WES SECHREST, LORI PRICE, JONATHAN E. M. BAILLIE, DON WEEDEN, KIERÁN SUCKLING, CRYSTAL DAVIS, NIGEL SIZER, REBECCA MOORE, DAVID THAU, TANYA BIRCH, PETER POTAPOV, SVETLANA TURUBANOVA, ALEXANDRA TYUKAVINA, NADIA DE SOUZA, LILIAN PINTEA, JOSÉ C. BRITO, OTHMAN A. LLEWELLYN, ANTHONY G. MILLER, ANNETTE PATZELT, SHAHINA A. GHAZANFAR, JONATHAN TIMBERLAKE, HEINZ KLÖSER, YARA SHENNAN-FARPÓN, ROELAND KINDT, JENS-PETER BARNEKOW LILLESØ, PAULO VAN BREUGEL, LARS GRAUDAL, MAIANNA VOGE, KHALAF F. AL-SHAMMARI, AND MUHAMMAD SALEEM

WORLD TERRESTRIAL ECOSYSTEMS

ELSEVIER

Global Ecology and Conservation

Volume 21, March 2020, e00860

Original Research Article

An assessment of the representation of ecosystems in global protected areas using new maps of World Climate Regions and World Ecosystems

Roger Sayre [a], Deniz Karagulle [b], Charlie Frye [b], Timothy Boucher [c], Nicholas H. Wolff [d], Sean Breyer [b], Dawn Wright [b], Madeline Martin [a], Kevin Butler [b], Keith Van Graafeiland [e], Jerry Touval [c], Leonardo Sotomayor [f], Jennifer McGowan [c], Edward T. Game [g], Hugh Possingham [g]

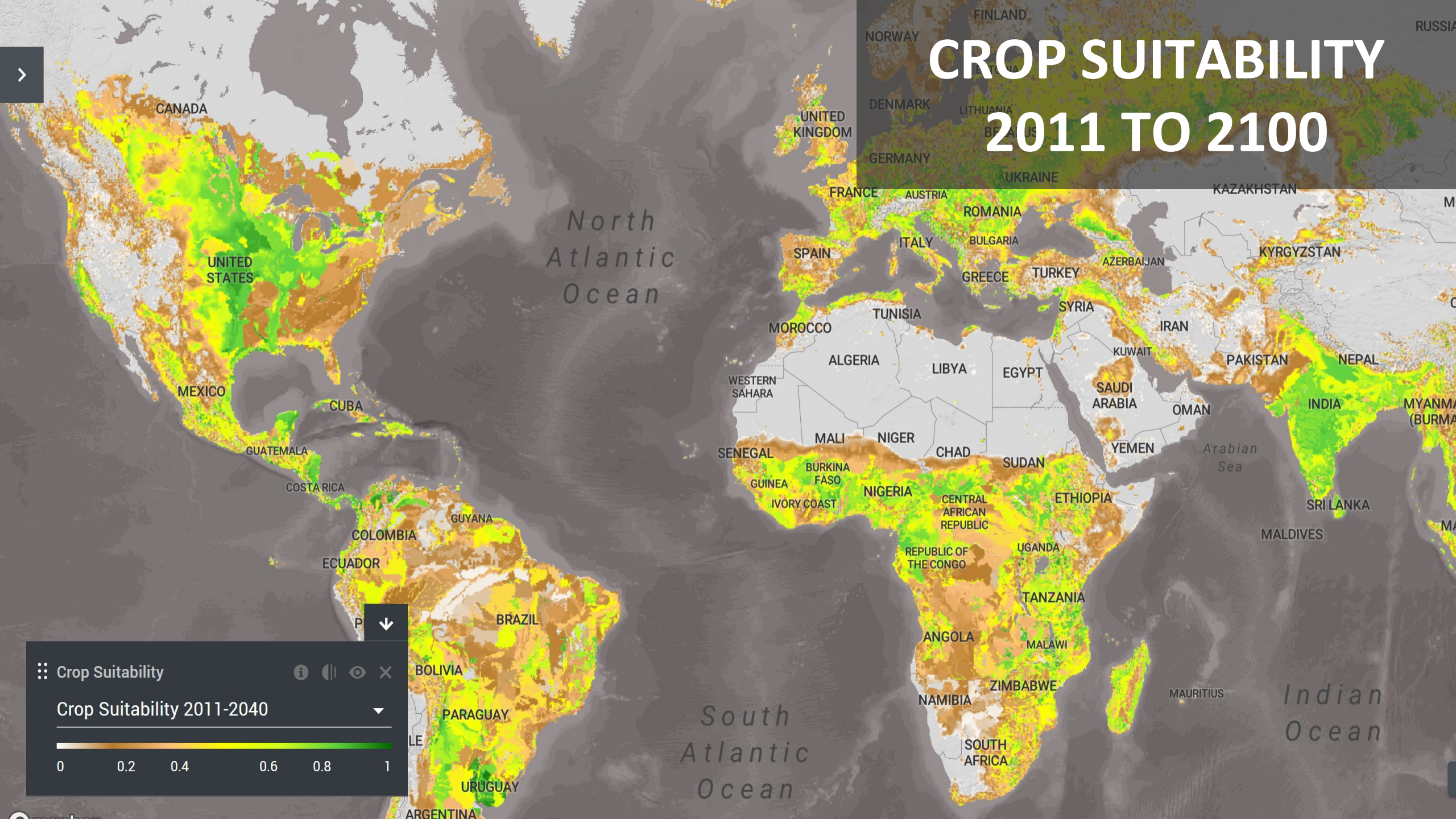
SNAPSHOT | SOCIO-ECONOMIC & HUMAN WELL-BEING DATA

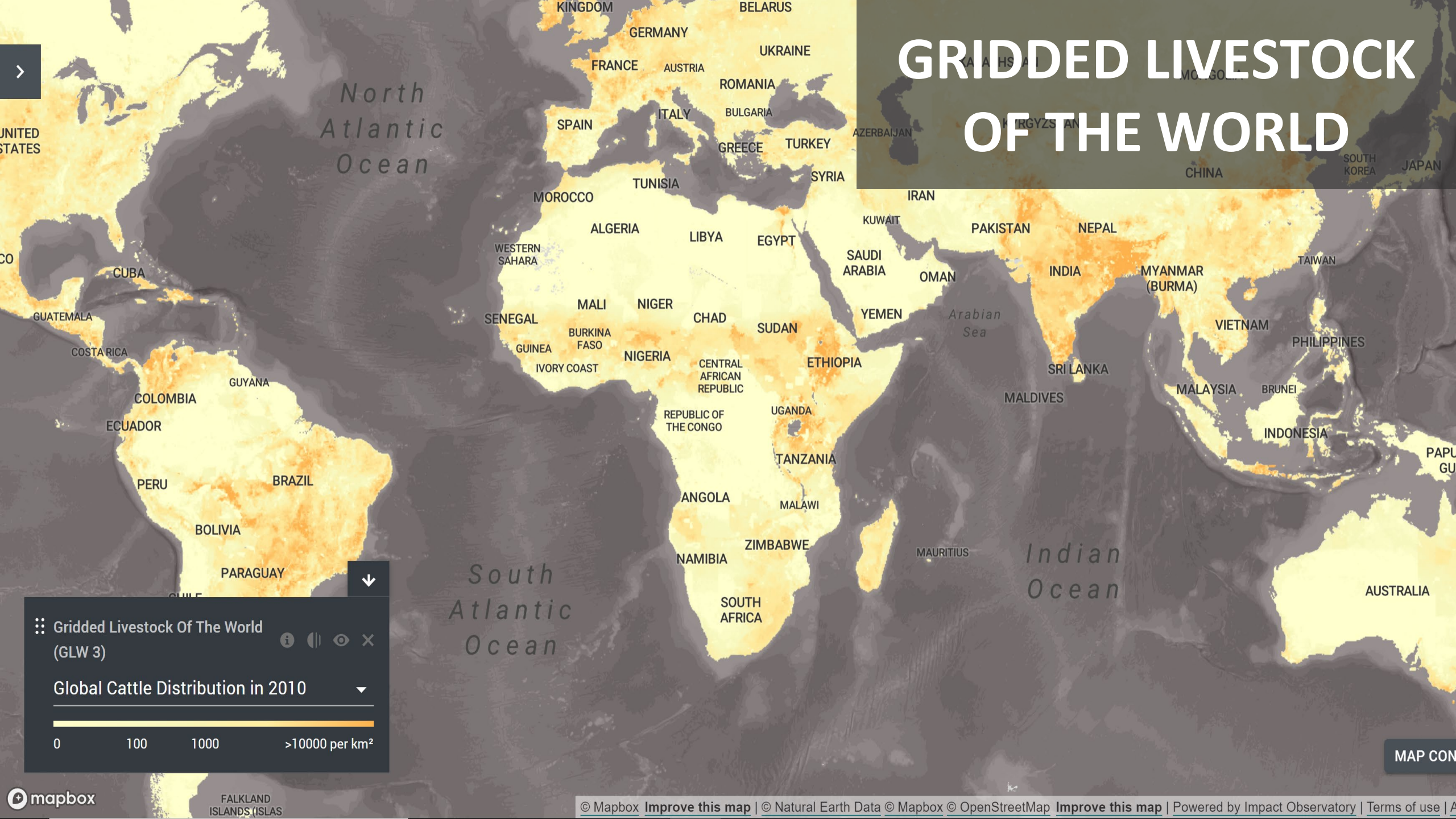
Photo: UNDP Equator Initiative | FUMA Gaskiya

CITY WATER MAP

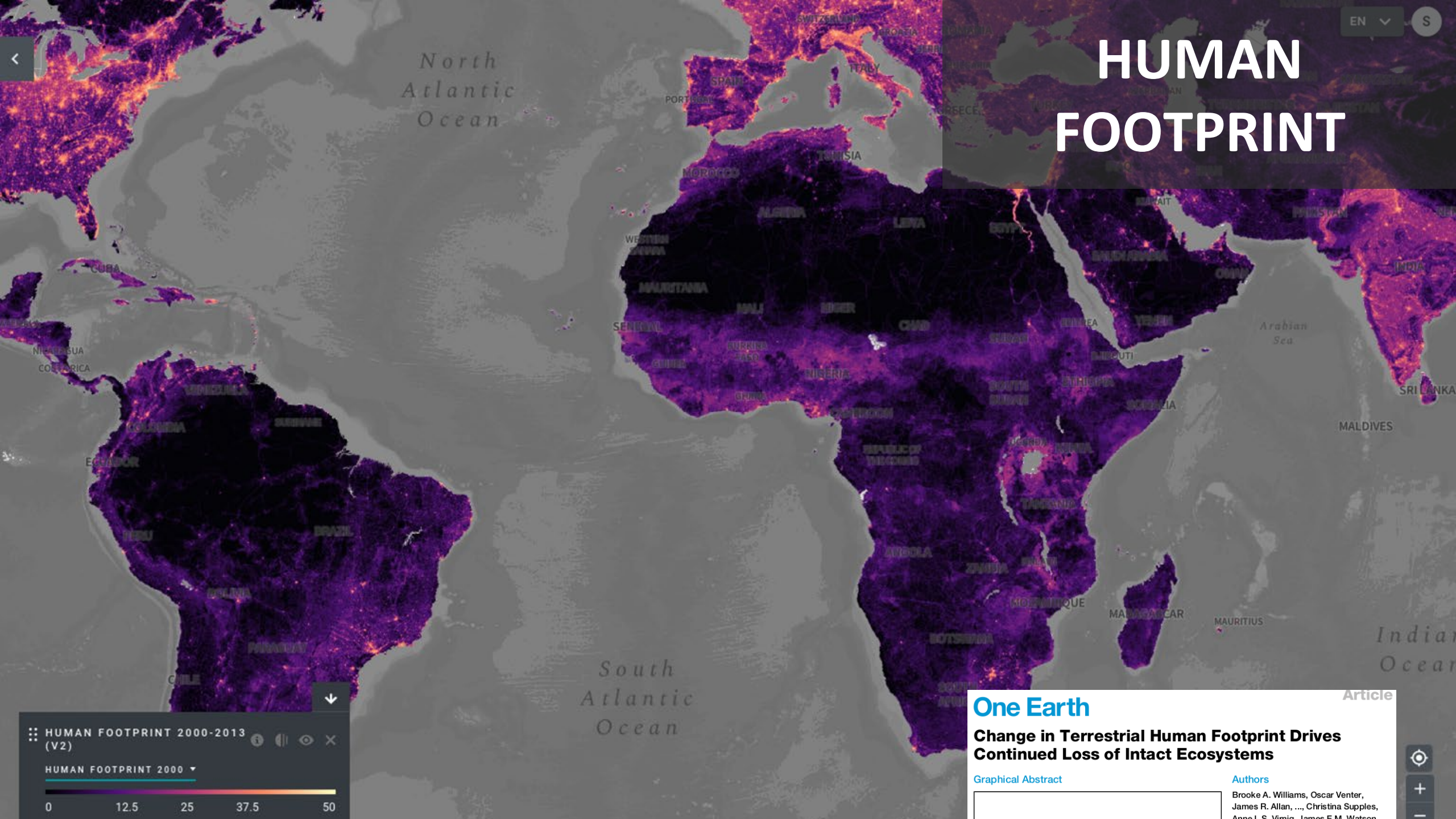
City Water Map (CWP) - Watersheds

CITY WATER MAP - WATERSHEDS


CROP SUITABILITY
2011 TO 2100
Crop Suitability
Crop Suitability 2011-2040
0
0.2
0.4
0.6
0.8
1
CANADA
UNITED STATES
MEXICO
CUBA
GUATEMALA
COSTA RICA
COLOMBIA
ECUADOR
GUYANA
BRAZIL
BOLIVIA
PARAGUAY
URUGUAY
ARGENTINA
North Atlantic Ocean
South Atlantic Ocean
Indian Ocean
Arabian Sea
UNITED KINGDOM
FINLAND
NORWAY
RUSSIA
DENMARK
GERMANY
UKRAINE
FRANCE
AUSTRIA
ROMANIA
BULGARIA
SPAIN
ITALY
GREECE
TURKEY
KAZAKHSTAN
KYRGYZSTAN
AZERBAIJAN
SYRIA
IRAN
TUNISIA
MOROCCO
ALGERIA
LIBYA
EGYPT
KUWAIT
PAKISTAN
NEPAL
INDIA
MYANMA (BURMA
WESTERN SAHARA
SAUDI ARABIA
OMAN
YEMEN
MALI
NIGER
CHAD
SUDAN
SENEGAL
BURKINA FASO
GUINEA
IVORY COAST
NIGERIA
CENTRAL AFRICAN REPUBLIC
ETHIOPIA
SRI LANKA
MALDIVES
REPUBLIC OF THE CONGO
UGANDA
TANZANIA
ANGOLA
MALAWI
ZIMBABWE
NAMIBIA
MAURITIUS
SOUTH AFRICA


GRIDDED LIVESTOCK OF THE WORLD
Gridded Livestock Of The World (GLW 3)
Global Cattle Distribution in 2010
0
100
1000
>10000 per km²
North Atlantic Ocean
South Atlantic Ocean
Indian Ocean
KINGDOM
BELARUS
GERMANY
UKRAINE
FRANCE
AUSTRIA
ROMANIA
SPAIN
ITALY
BULGARIA
GREECE
TURKEY
AZERBAIJAN
SYRIA
TUNISIA
MOROCCO
IRAN
KUWAIT
ALGERIA
LIBYA
EGYPT
PAKISTAN
NEPAL
WESTERN SAHARA
SAUDI ARABIA
OMAN
INDIA
MYANMAR (BURMA)
TAIWAN
CUBA
MALI
NIGER
CHAD
SUDAN
YEMEN
Arabian Sea
GUATEMALA
SENEGAL
BURKINA FASO
GUINEA
NIGERIA
IVORY COAST
CENTRAL AFRICAN REPUBLIC
ETHIOPIA
VIETNAM
PHILIPPINES
COSTA RICA
SRI LANKA
GUYANA
COLOMBIA
MALDIVES
MALAYSIA
BRUNEI
ECUADOR
REPUBLIC OF THE CONGO
UGANDA
INDONESIA
TANZANIA
PERU
BRAZIL
ANGOLA
MALAWI
BOLIVIA
ZIMBABWE
MAURITIUS
NAMIBIA
PARAGUAY
SOUTH AFRICA
AUSTRALIA
FALKLAND ISLANDS (ISLAS
mapbox
© Mapbox Improve this map | © Natural Earth Data © Mapbox © OpenStreetMap Improve this map | Powered by Impact Observatory | Terms of use

HUMAN FOOTPRINT



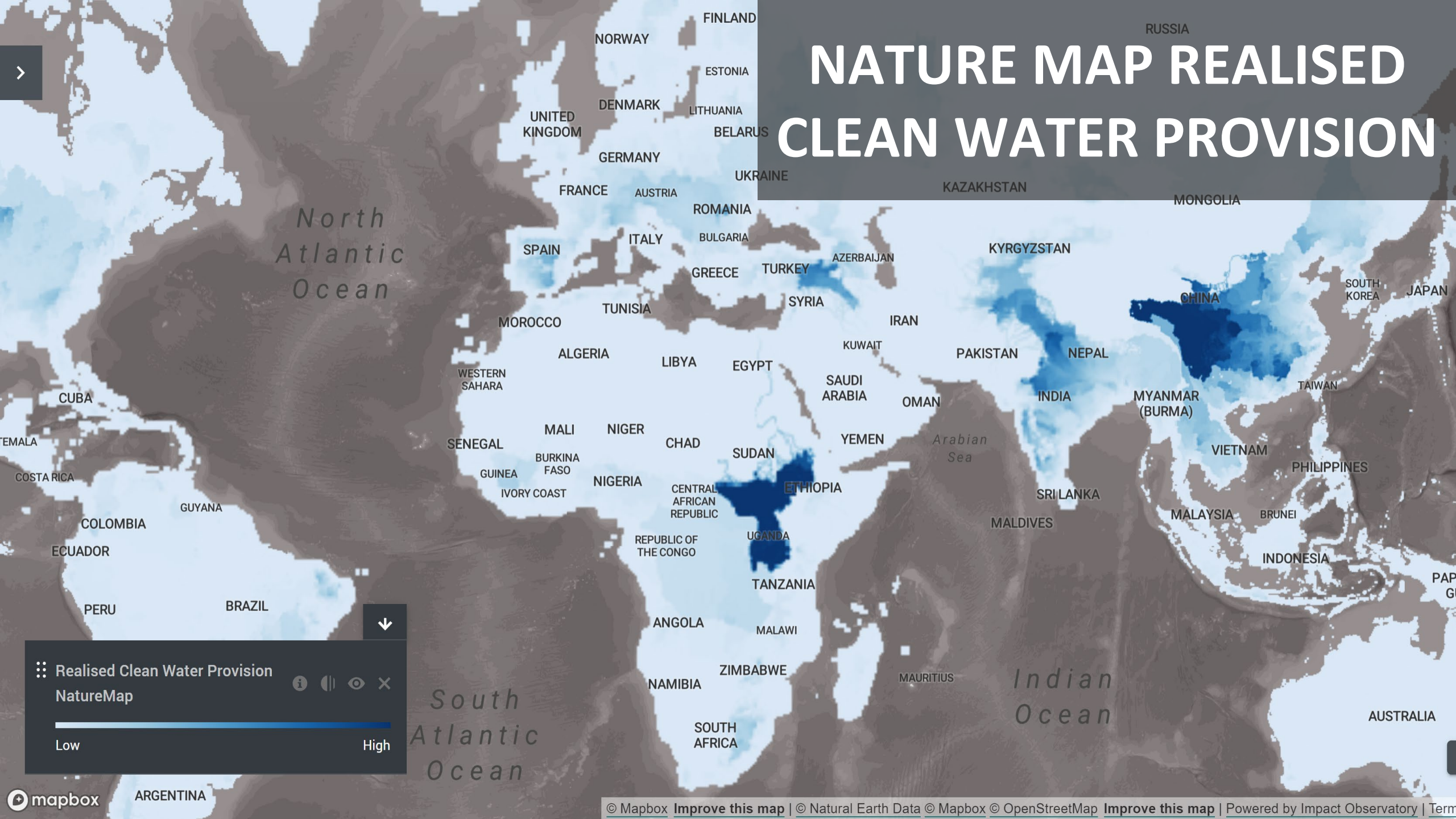
Article
One Earth

Change in Terrestrial Human Footprint Drives Continued Loss of Intact Ecosystems

Graphical Abstract

Authors
Brooke A. Williams, Oscar Venter, James R. Allan, ..., Christina Supples, Anne L. S. Virnig, James E.M. Watson

NATURE MAP REALISED CLEAN WATER PROVISION

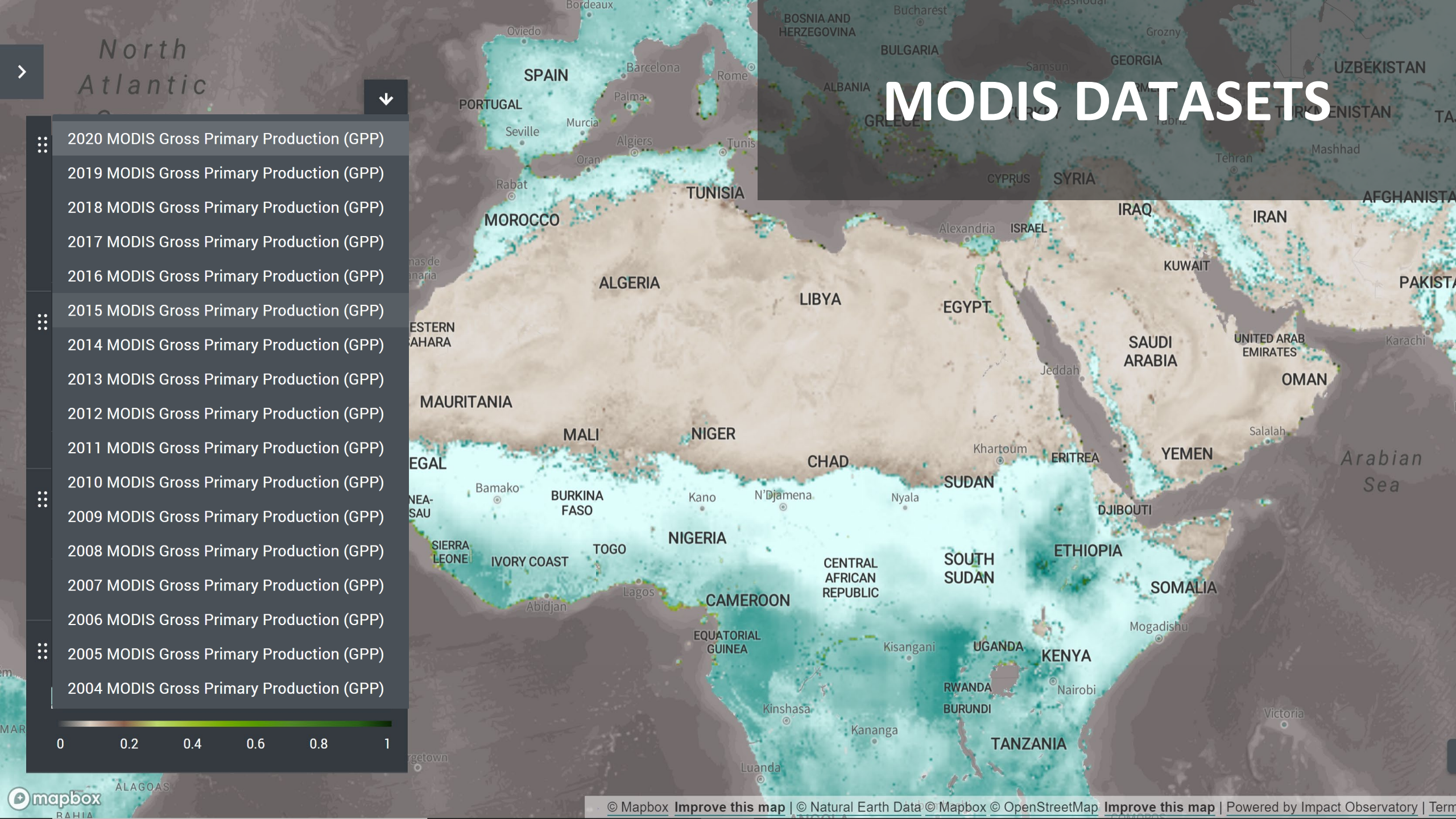


Realised Clean Water Provision
NatureMap

Low — High

SNAPSHOT | TIME SERIES DATA


ANNUAL TREE COVER LOSS
Global Forest Cover
Forest Cover Loss Year (2000 - 2020)
2000
2020
CANADA
UNITED STATES
MEXICO
CUBA
GUATEMALA
COSTA RICA
COLOMBIA
ECUADOR
GUYANA
BRAZIL
BOLIVIA
PARAGUAY
URUGUAY
ARGENTINA
North Atlantic Ocean
South Atlantic Ocean
Indian Ocean
FINLAND
NORWAY
RUSSIA
DENMARK
LITHUANIA
UNITED KINGDOM
BELARUS
GERMANY
UKRAINE
FRANCE
AUSTRIA
KAZAKHSTAN
ROMANIA
SPAIN
ITALY
BULGARIA
GREECE
TURKEY
AZERBAIJAN
KYRGYZSTAN
SYRIA
TUNISIA
MOROCCO
IRAN
KUWAIT
ALGERIA
LIBYA
EGYPT
PAKISTAN
NEPAL
WESTERN SAHARA
SAUDI ARABIA
OMAN
INDIA
MALI
NIGER
CHAD
SUDAN
YEMEN
Arabian Sea
SENEGAL
BURKINA FASO
GUINEA
NIGERIA
IVORY COAST
CENTRAL AFRICAN REPUBLIC
ETHIOPIA
SRI LANKA
MALDIVES
REPUBLIC OF THE CONGO
UGANDA
TANZANIA
ANGOLA
MALAWI
ZIMBABWE
NAMIBIA
MAURITIUS
SOUTH AFRICA
mapbox
© Mapbox Improve this map | © Natural Earth Data © Mapbox © OpenStreetMap Improve this map | Powered by Impact Observatory | Term


MODIS DATASETS
2020 MODIS Gross Primary Production (GPP)
2019 MODIS Gross Primary Production (GPP)
2018 MODIS Gross Primary Production (GPP)
2017 MODIS Gross Primary Production (GPP)
2016 MODIS Gross Primary Production (GPP)
2015 MODIS Gross Primary Production (GPP)
2014 MODIS Gross Primary Production (GPP)
2013 MODIS Gross Primary Production (GPP)
2012 MODIS Gross Primary Production (GPP)
2011 MODIS Gross Primary Production (GPP)
2010 MODIS Gross Primary Production (GPP)
2009 MODIS Gross Primary Production (GPP)
2008 MODIS Gross Primary Production (GPP)
2007 MODIS Gross Primary Production (GPP)
2006 MODIS Gross Primary Production (GPP)
2005 MODIS Gross Primary Production (GPP)
2004 MODIS Gross Primary Production (GPP)
0
0.2
0.4
0.6
0.8
1
North Atlantic
SPAIN
PORTUGAL
MOROCCO
ALGERIA
TUNISIA
LIBYA
EGYPT
MAURITANIA
MALI
NIGER
CHAD
SUDAN
NIGERIA
BURKINA FASO
IVORY COAST
TOGO
CAMEROON
EQUATORIAL GUINEA
CENTRAL AFRICAN REPUBLIC
SOUTH SUDAN
ETHIOPIA
SOMALIA
ERITREA
DJIBOUTI
YEMEN
SAUDI ARABIA
OMAN
UNITED ARAB EMIRATES
KUWAIT
IRAQ
IRAN
SYRIA
ISRAEL
CYPRUS
GREECE
BULGARIA
BOSNIA AND HERZEGOVINA
ALBANIA
GEORGIA
UZBEKISTAN
AFGHANISTAN
PAKISTAN
Arabian Sea
KENYA
UGANDA
RWANDA
BURUNDI
TANZANIA
Bordeaux
Oviedo
Barcelona
Rome
Palma
Seville
Murcia
Algiers
Tunis
Oran
Rabat
Alexandria
Bucharest
Grozny
Samsun
Tehran
Mashhad
Karachi
Jeddah
Khartoum
Nyala
N'Djamena
Kano
Bamako
Lagos
Abidjan
Kisangani
Kinshasa
Kananga
Luanda
Nairobi
Mogadishu
Victoria
Salalah
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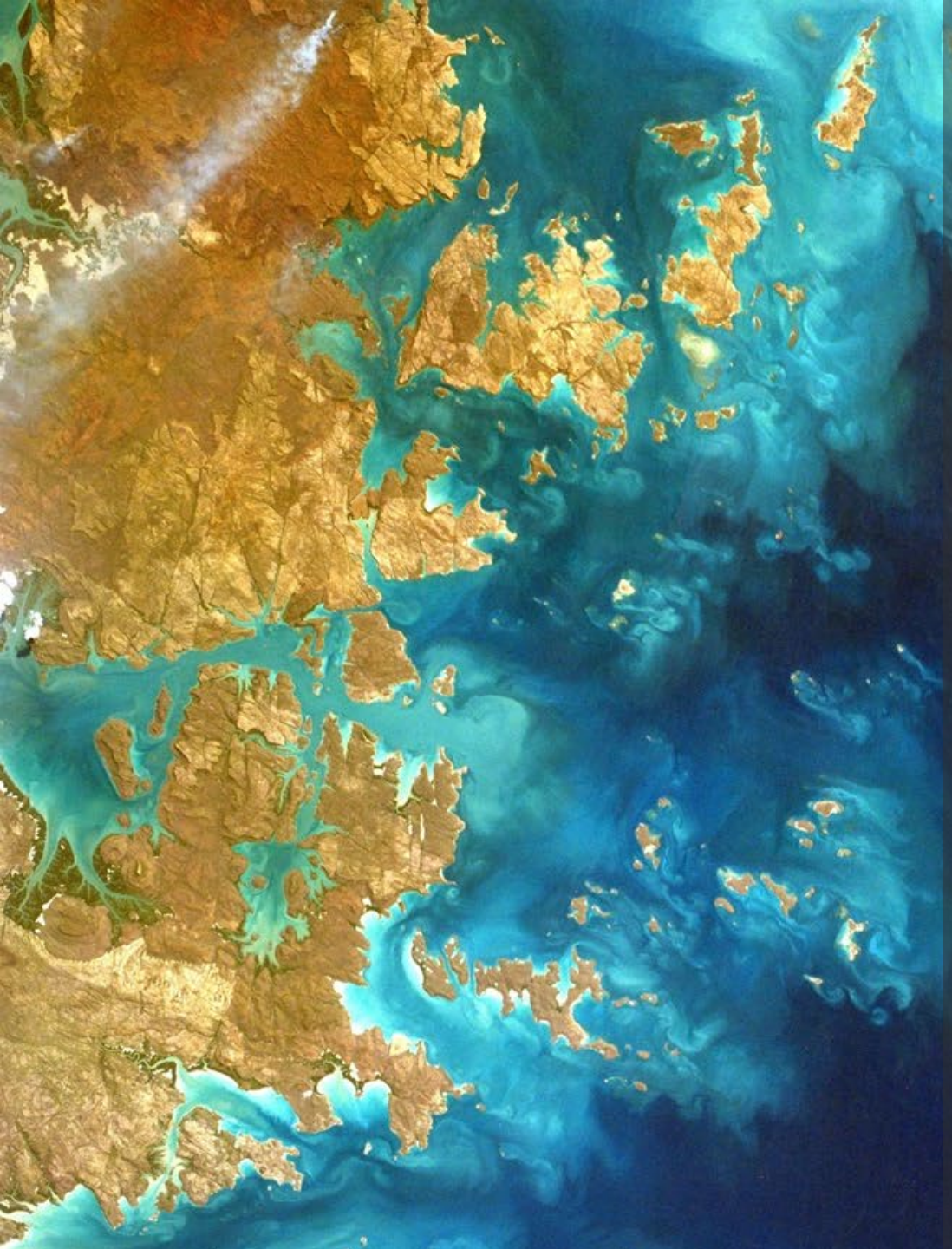


ACCESS OUR FULL DATA LIST

UNBiodiversity Lab

www.unbiodiversitylab.org/data-list

INTERACTIVE ACTIVITY

1. What types of data are most relevant/interesting for you?

Please add your response to the question and answer box!

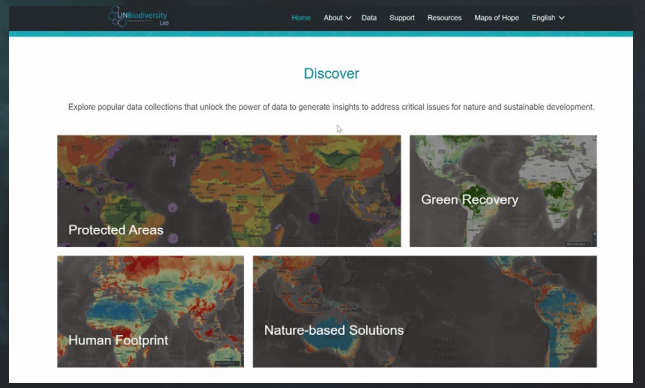
UNBL Data Collections

INTRODUCTION TO UNBL DATA COLLECTIONS

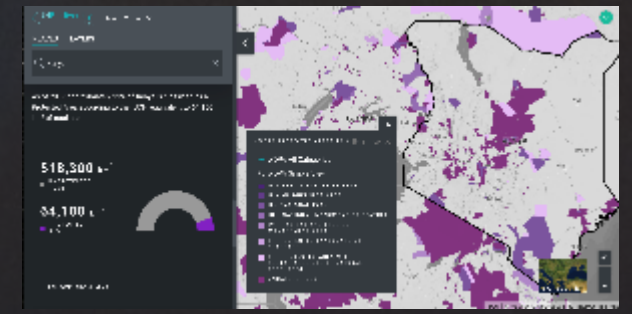
Nicole DeSantis, UNDP

UN BIODIVERSITY LAB | 6 KEY FEATURES

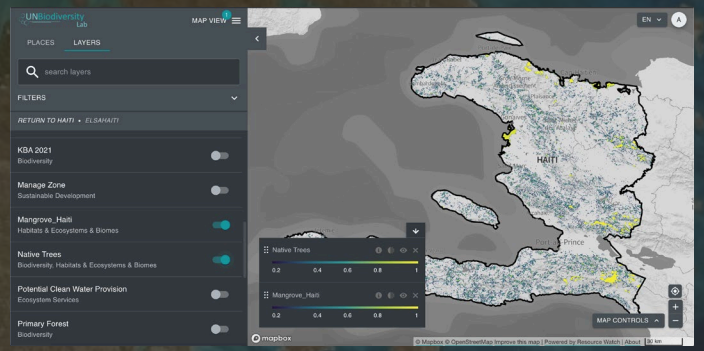
1. Access >400 global layers



2. Explore data collections

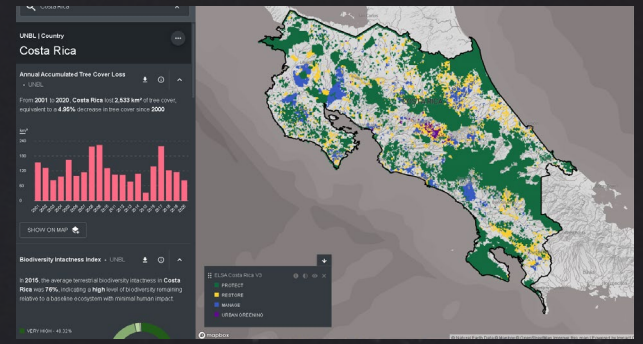


3. Calculate dynamic metrics



4. Create secure workspaces

5. Create maps



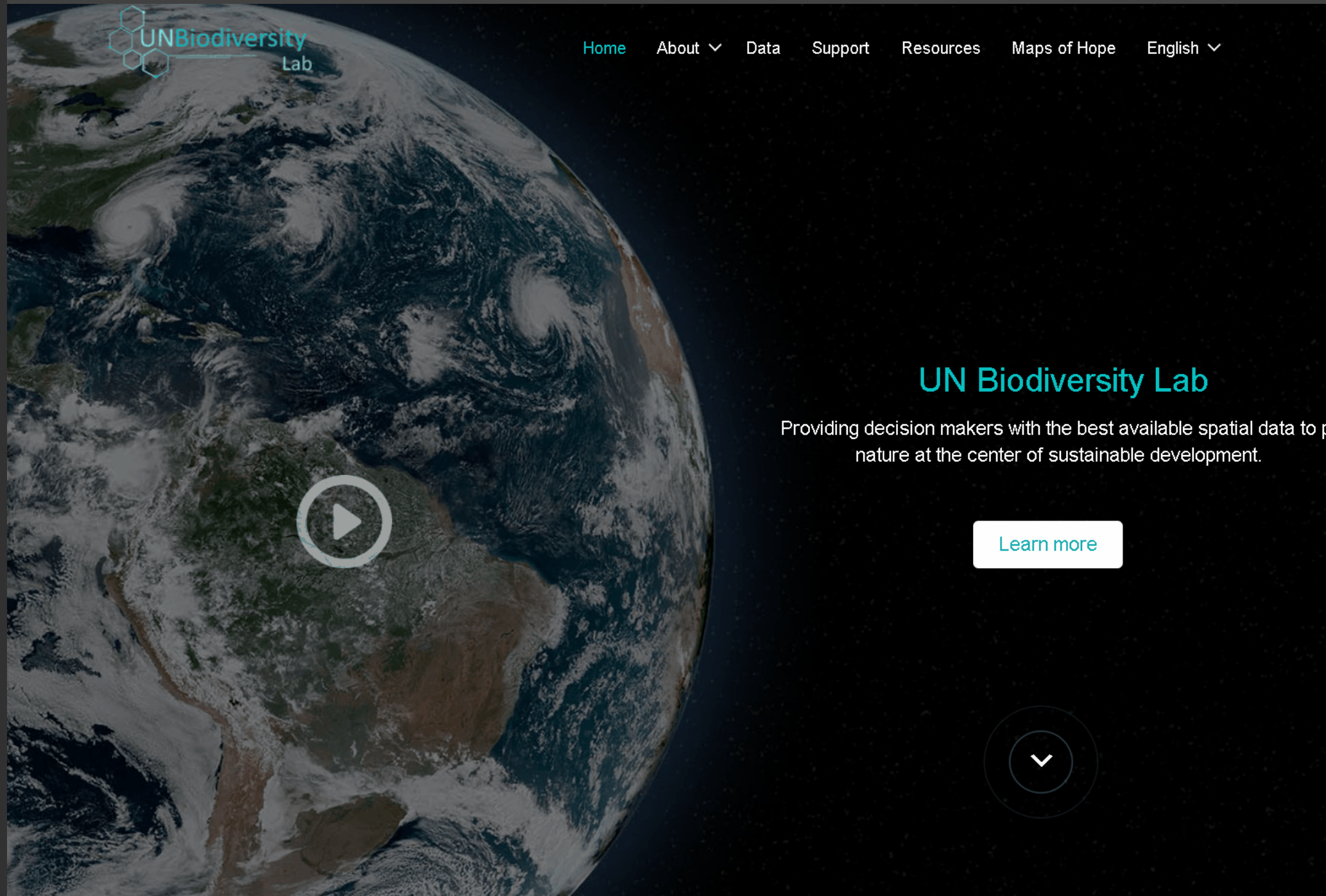
6. Map Essential Life Support Areas

WHAT ARE UNBL COLLECTIONS?

- UNBL Collections:
  - Protected areas
  - Nature-based solutions for climate change
  - Post-2020 global biodiversity framework *(coming soon!)*
  - Restoration *(coming soon!)*

EXPLORE UNBL COLLECTIONS

[View Animated GIFS (Slides 48-81)]



Discover

Explore popular data collections that unlock the power of data to generate insights to address critical issues for nature and sustainable development.

HOW TO USE:

UNBL PA Data Collection – Single Layers

The Protected Area Collection provides a key resource for planners and decision-makers to identify opportunities for protected areas and OECMs to contribute to national biodiversity, including delivery of Target 3 of the Global Biodiversity Framework (GBF), as well as climate change and sustainable development priorities.

Explore the collection in three easy steps:

1. Browse the key policy questions provided below.
2. Select a question of interest to view a description of the map available, input data layers, and policy relevance.
3. Click 'View data' to view a map that provides input to address the question.

Note: *These policy-relevant questions and associated data layers are provided for users to develop their own prioritization when designing Protected Area strategies. While global layers from the UNBL public platform are used here, users may also want to consider using national data to create similar overlays via our UNBL workspaces.*

ⓘ Data layers to address key policy-relevant questions

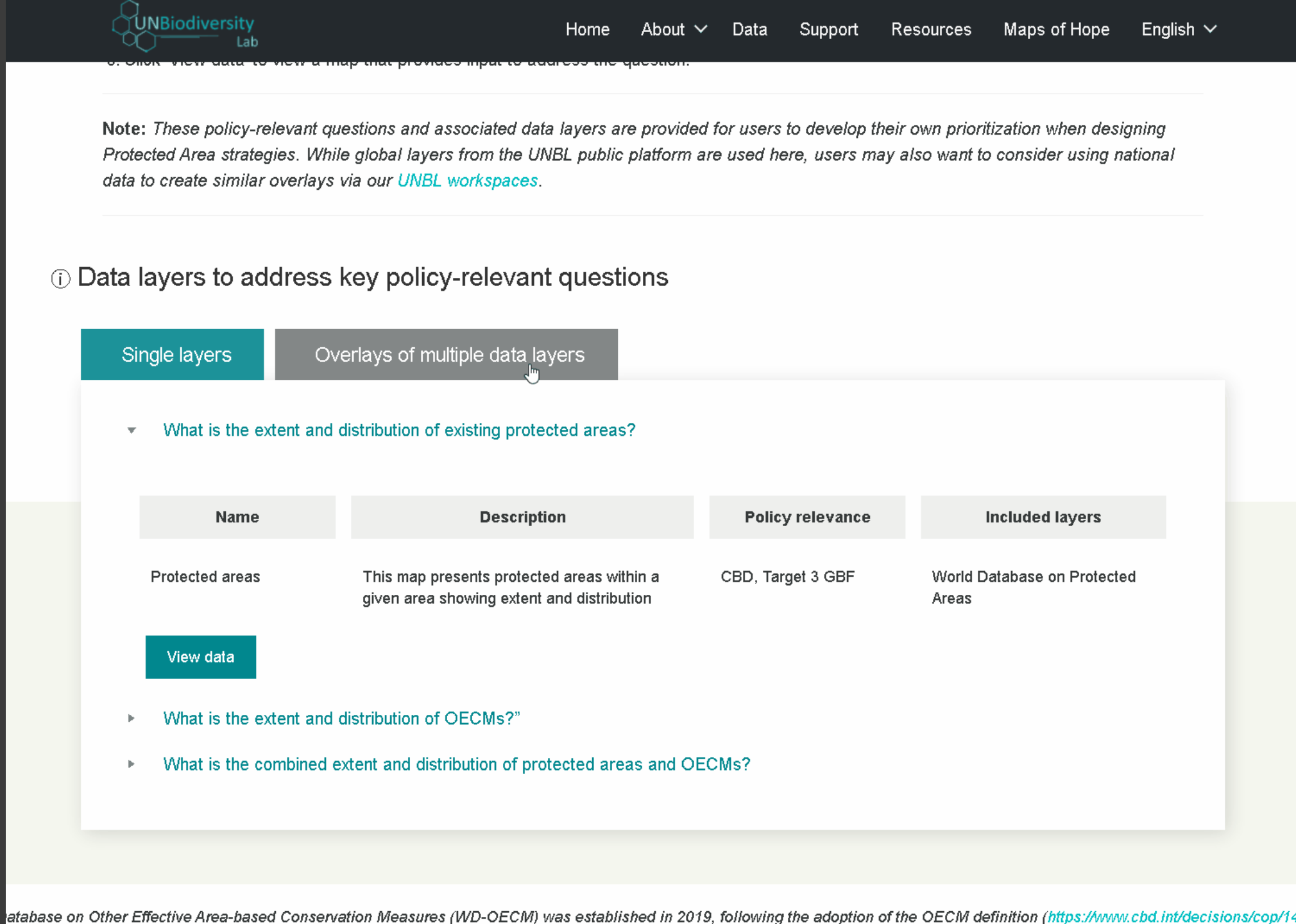
Single layers | Overlays of multiple data layers

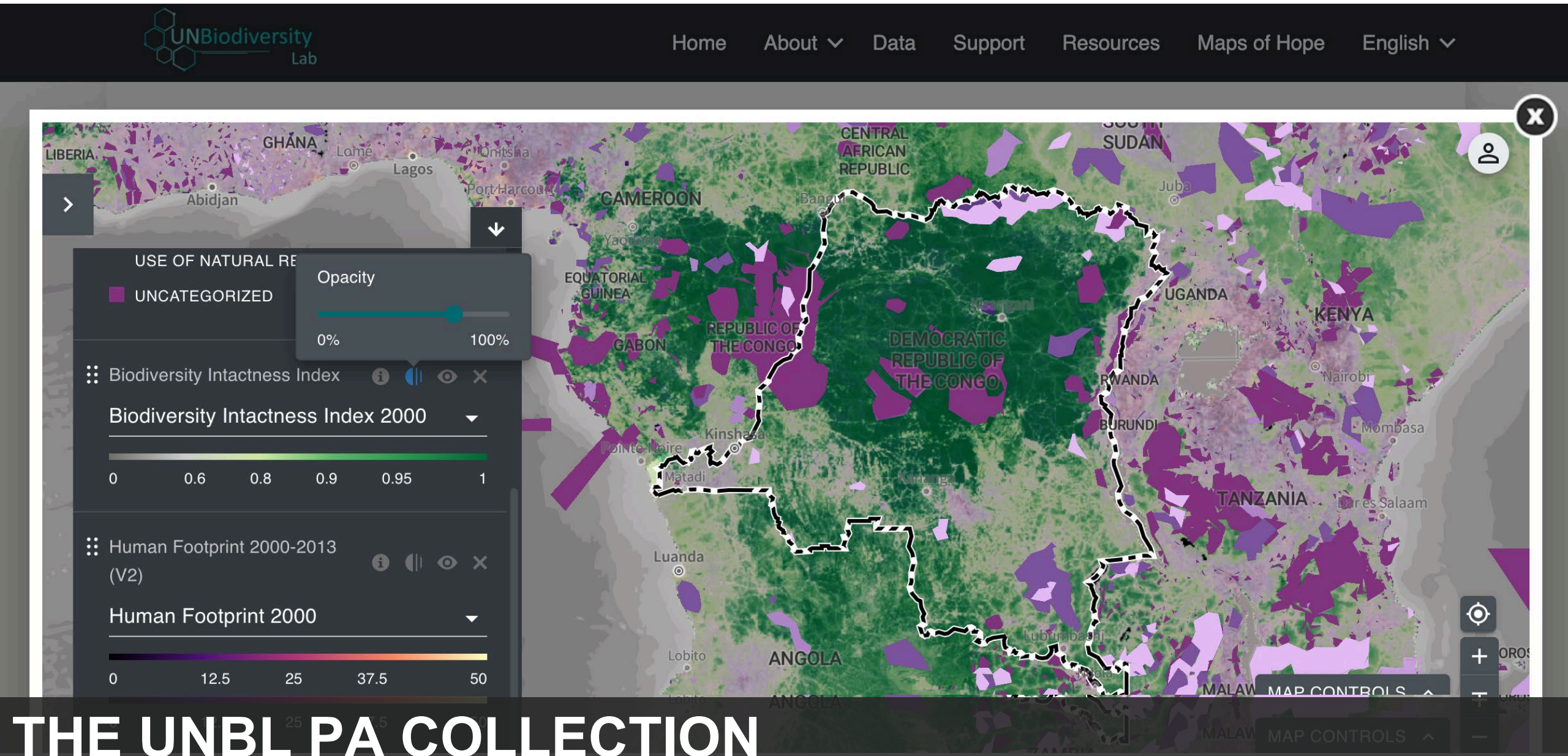
- What is the extent and distribution of existing protected areas?
- What is the extent and distribution of OECMs?"
- What is the combined extent and distribution of protected areas and OECMs?

The World Database on Other Effective Area-based Conservation Measures (WD-OECM) was established in 2019, following the adoption of the OECM definition (https://www.cbd.int/decisions/cop/14/8) in 2018. Given that the database and definition were only recently developed, many governments have not yet reported data on OECMs, or have reported only a subset of their OECMs. Users should consider this when using the WD-OECM, and should not assume that countries without OECM data lack OECMs in reality, or that countries with OECM data have reported their full complement of OECMs. Users wishing to provide data on OECMs should contact UNEP-WCMC at OECM@unep-wcmc.org.

HOW TO USE:

UNBL PA Data Collection – Multiple Layers





THE UNBL PA COLLECTION

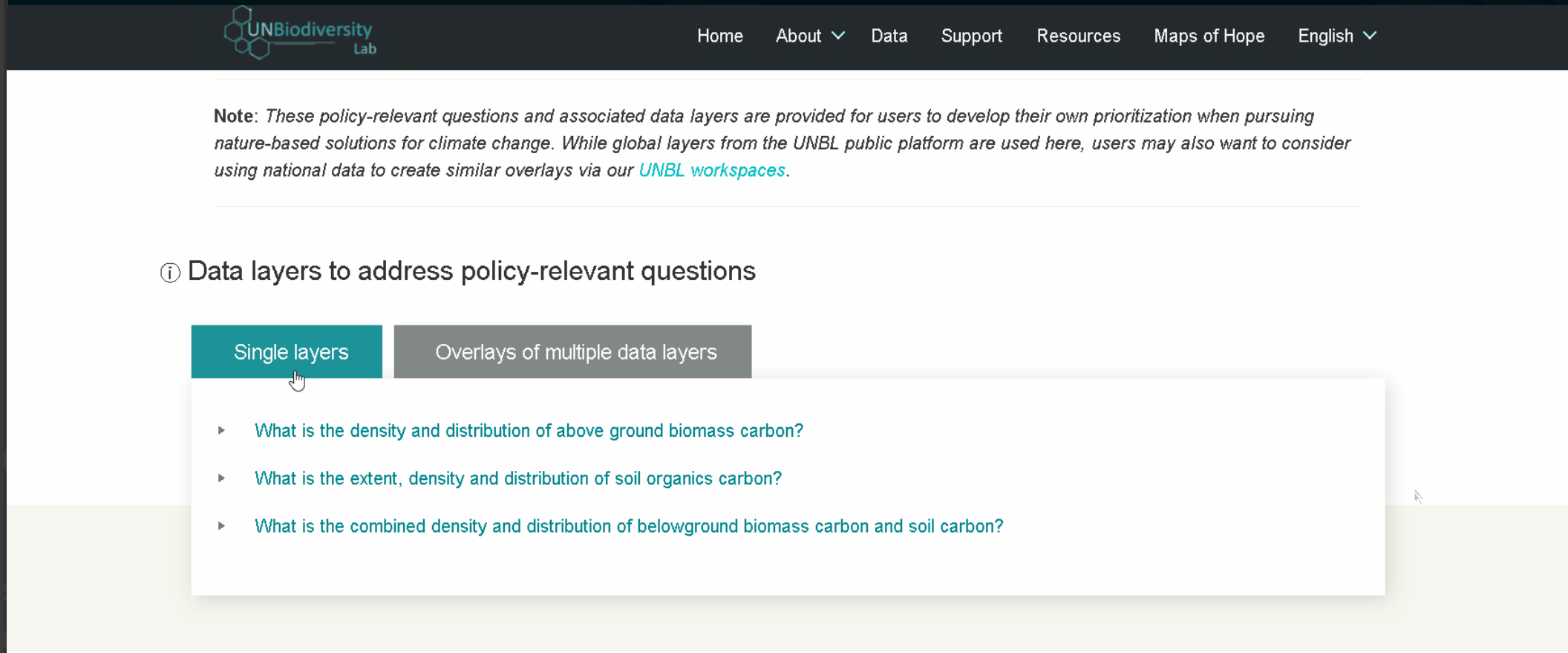
- Using the PA Data Collection to inform national action
- Data layers to address policy-relevant questions

Discover

Explore popular data collections that unlock the power of data to generate insights to address critical issues for nature and sustainable development.

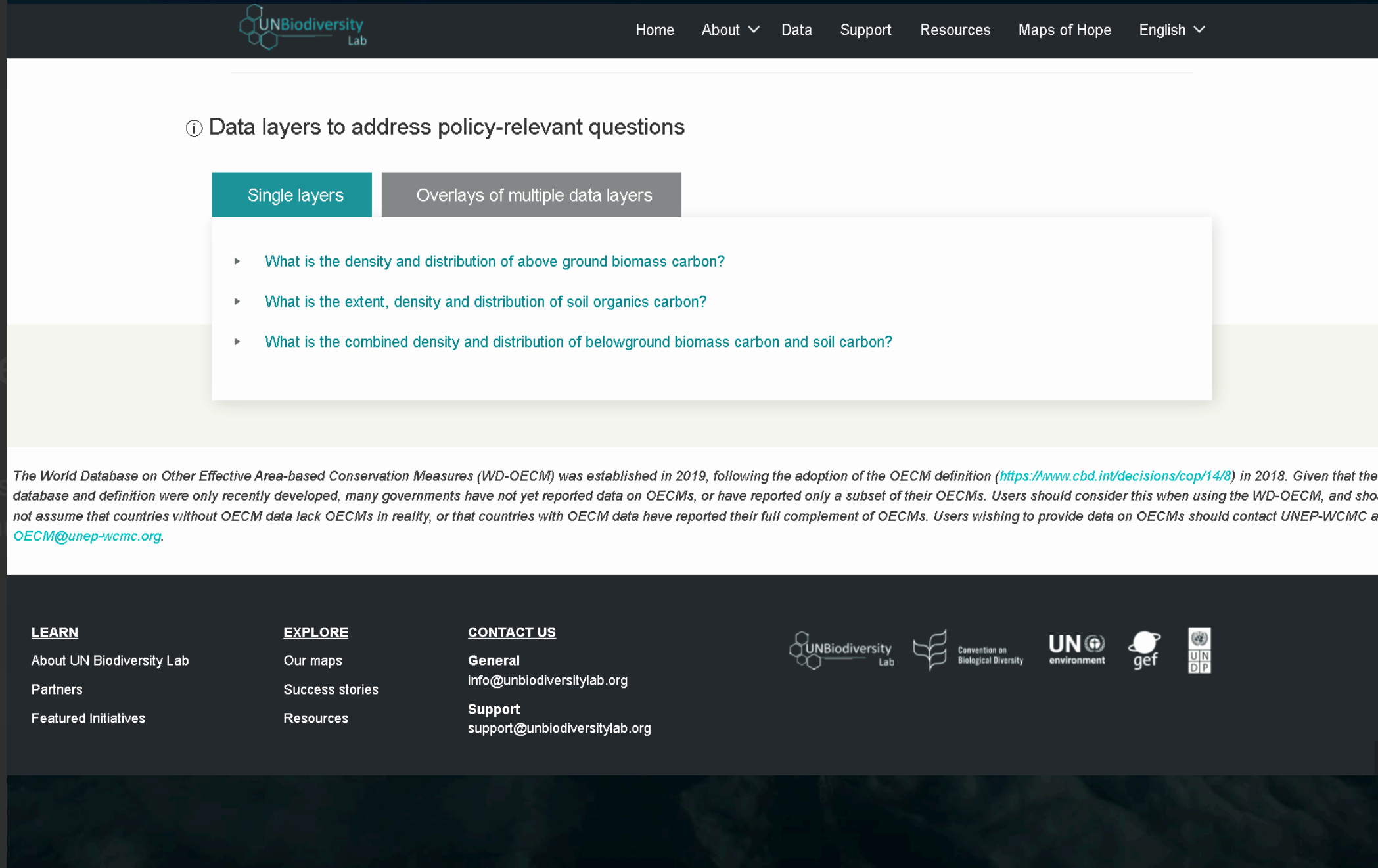
HOW TO USE:

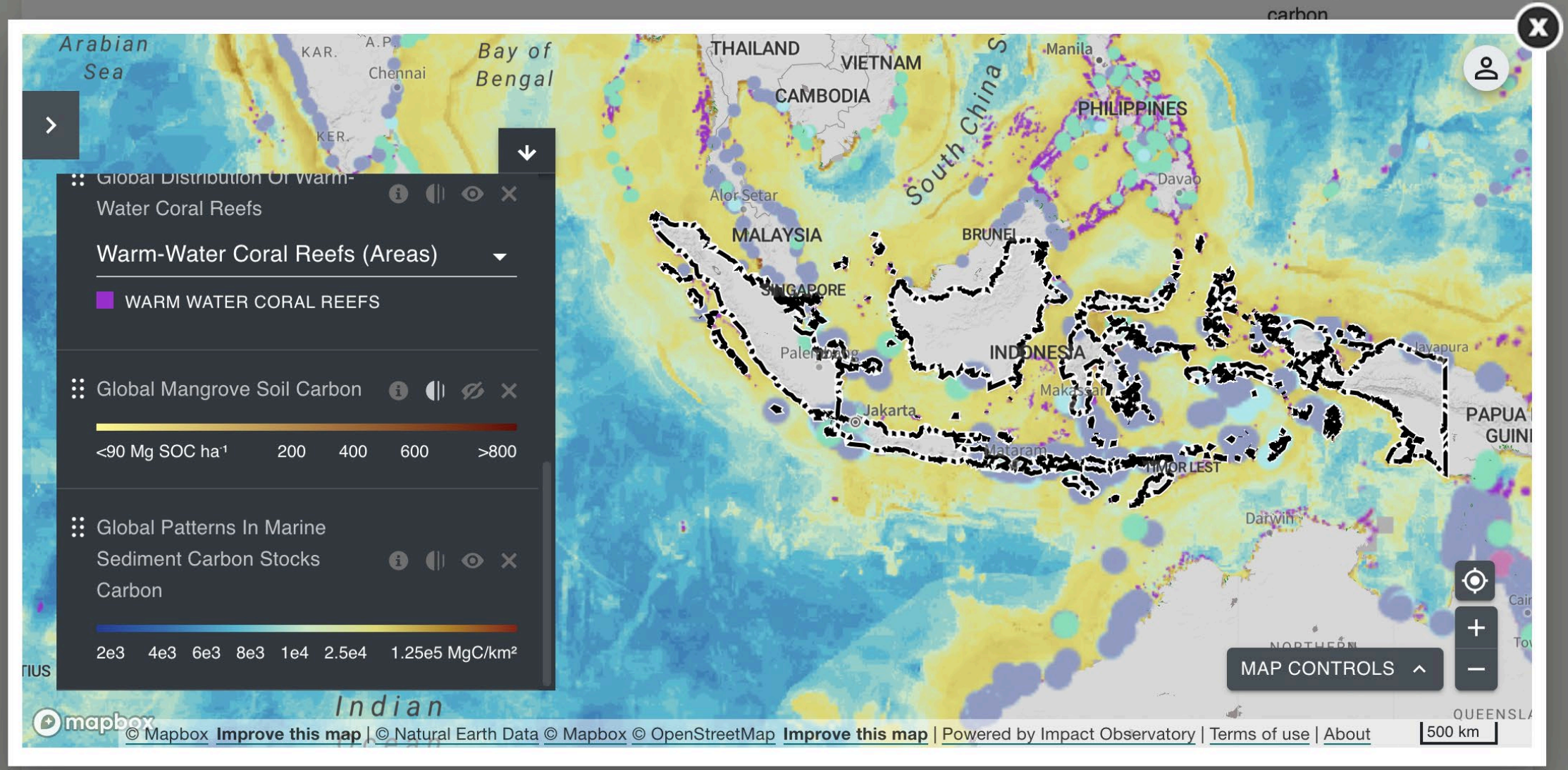
UNBL NBS for Climate Change Data Collection – Single Layers



HOW TO USE:

UNBL NBS for Climate Change Data Collection – Multiple Layers





THE UNBL NBS FOR CLIMATE CHANGE COLLECTION

- Using the NBS for Climate Change Data Collection to inform national action
- Data layers to address policy-relevant questions

INTERACTIVE ACTIVITY

1. What types of data collections would you like to see on UNBL in the future?

Please add your response to the question and answer box!

UNBL Public Platform Training

UNBL PUBLIC PLATFORM TRAINING

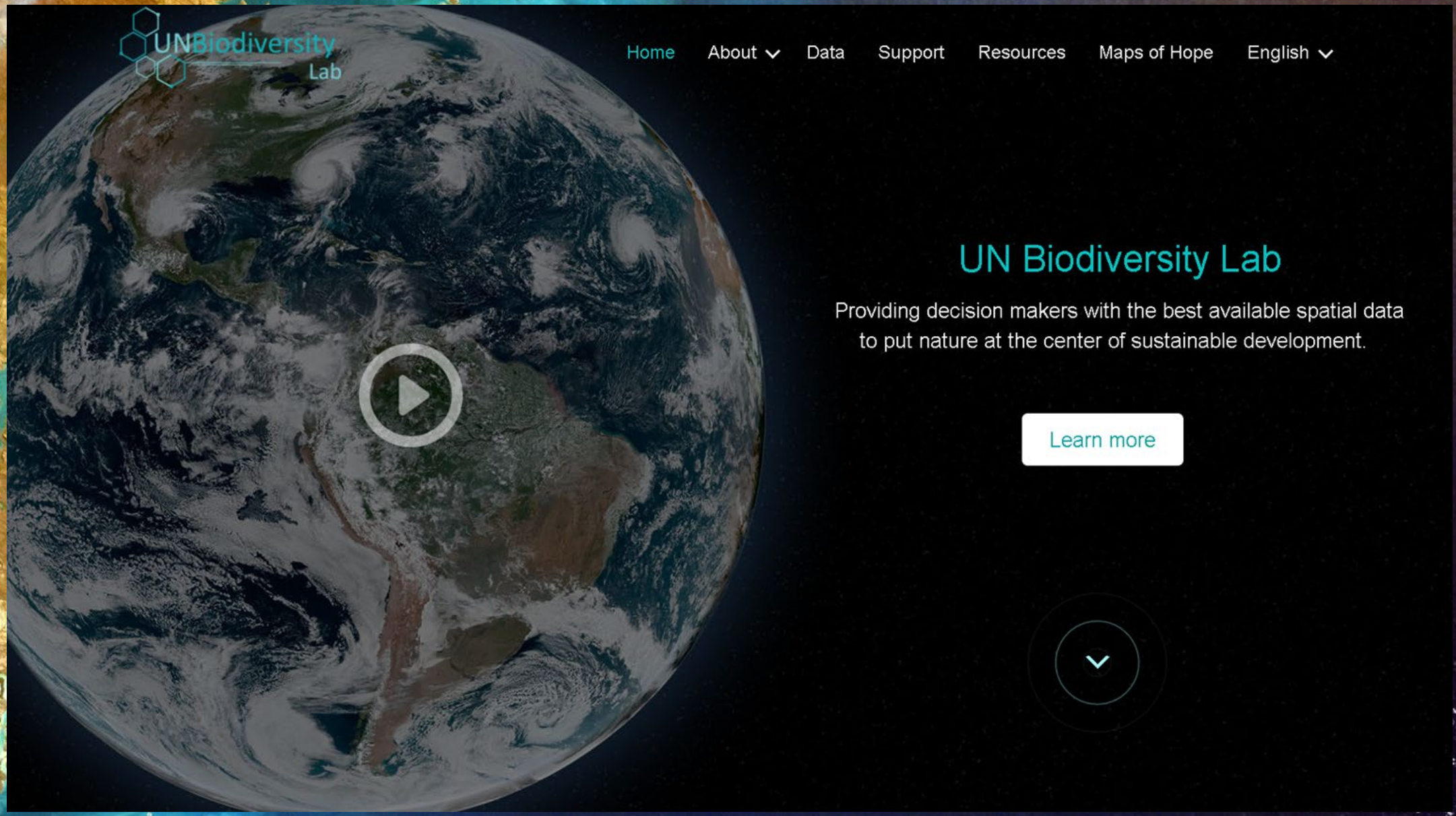
Di Zhang, UNDP

TRAINING OVERVIEW

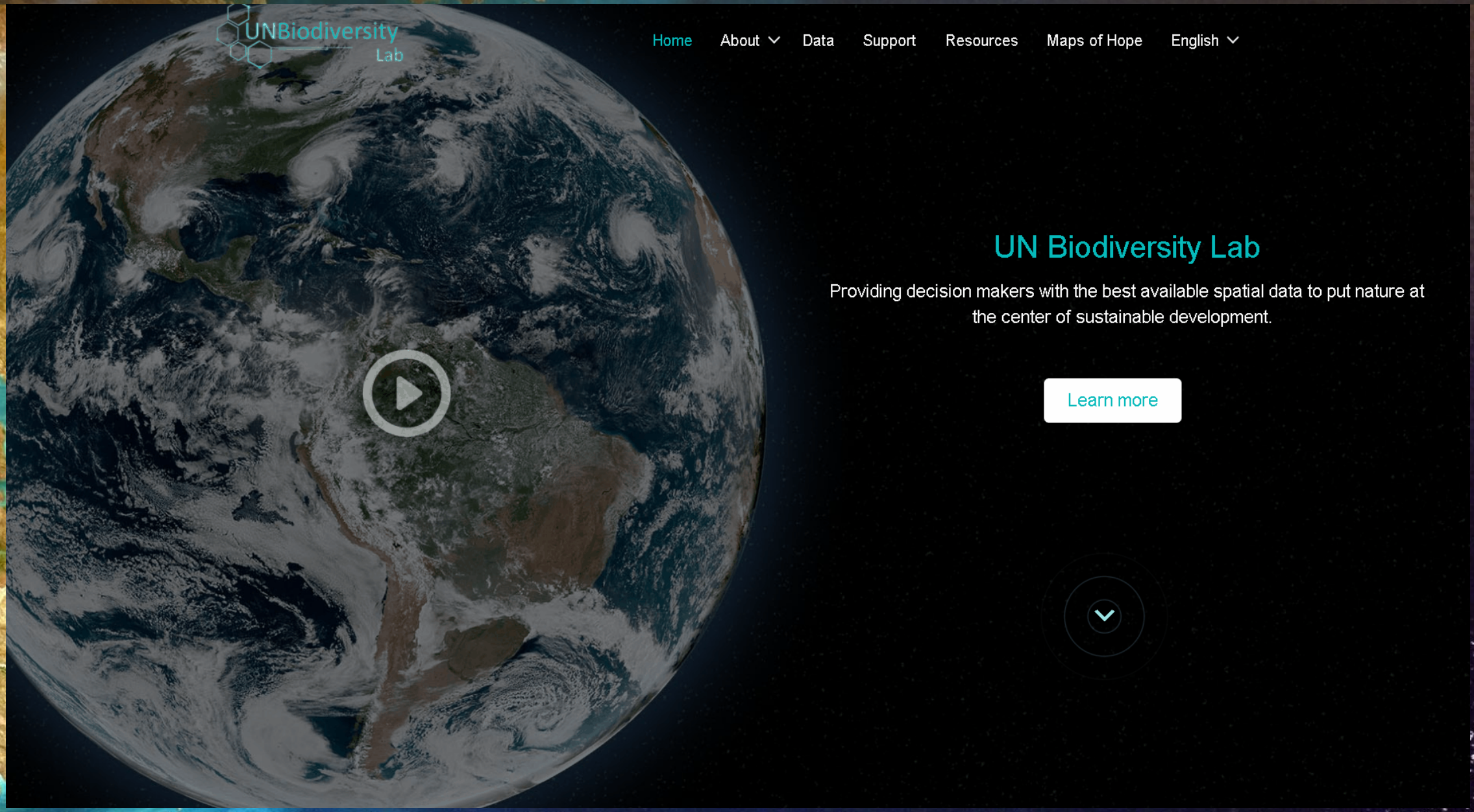
1. Register & login
2. Search & visualize global datasets
3. Calculate dynamic metrics for your country
4. Share views, create maps & download data


REGISTER ON UN BIODIVERSITY LAB

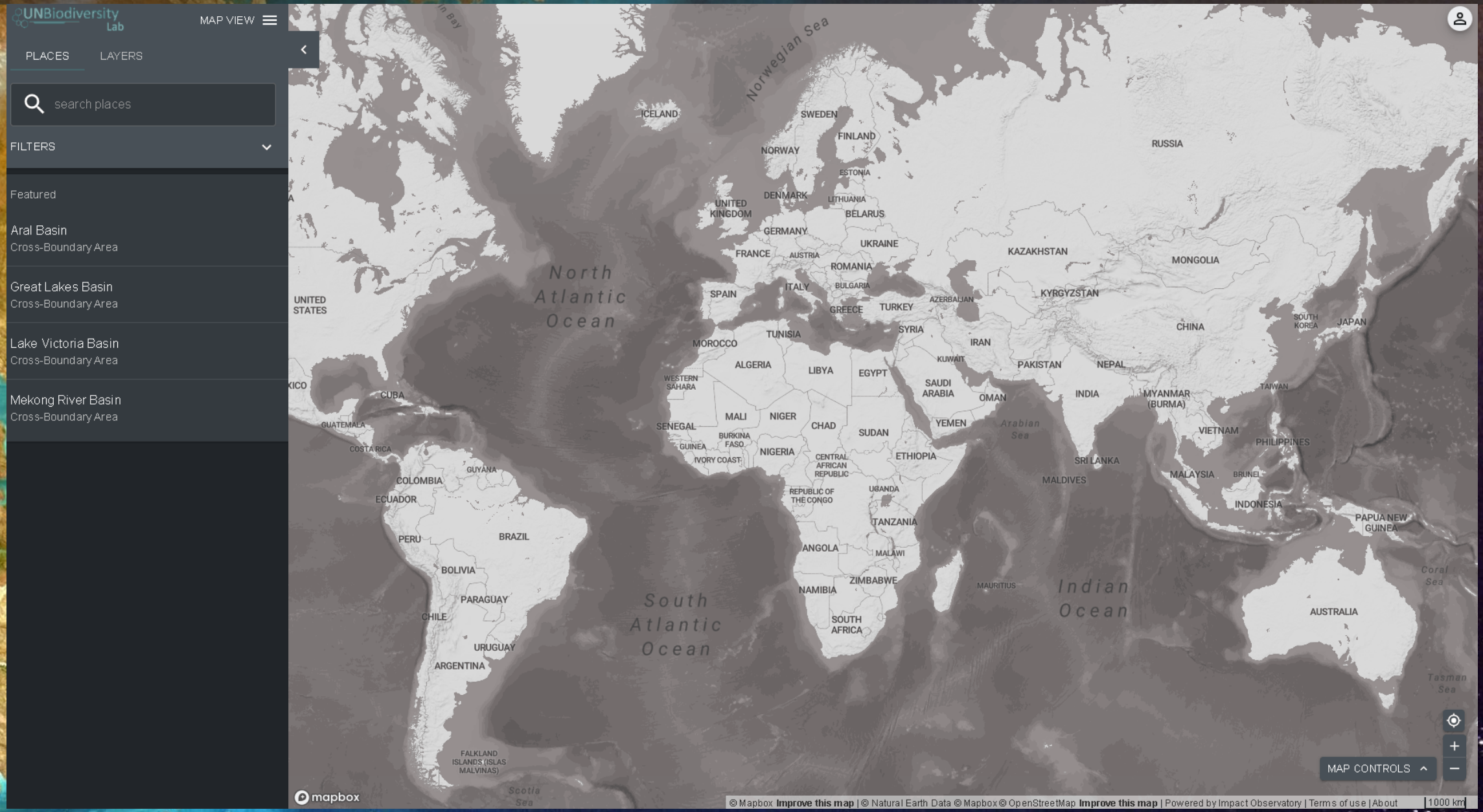
WELCOME! WWW.UNBIODIVERSITYLAB.ORG



CHANGING LANGUAGE

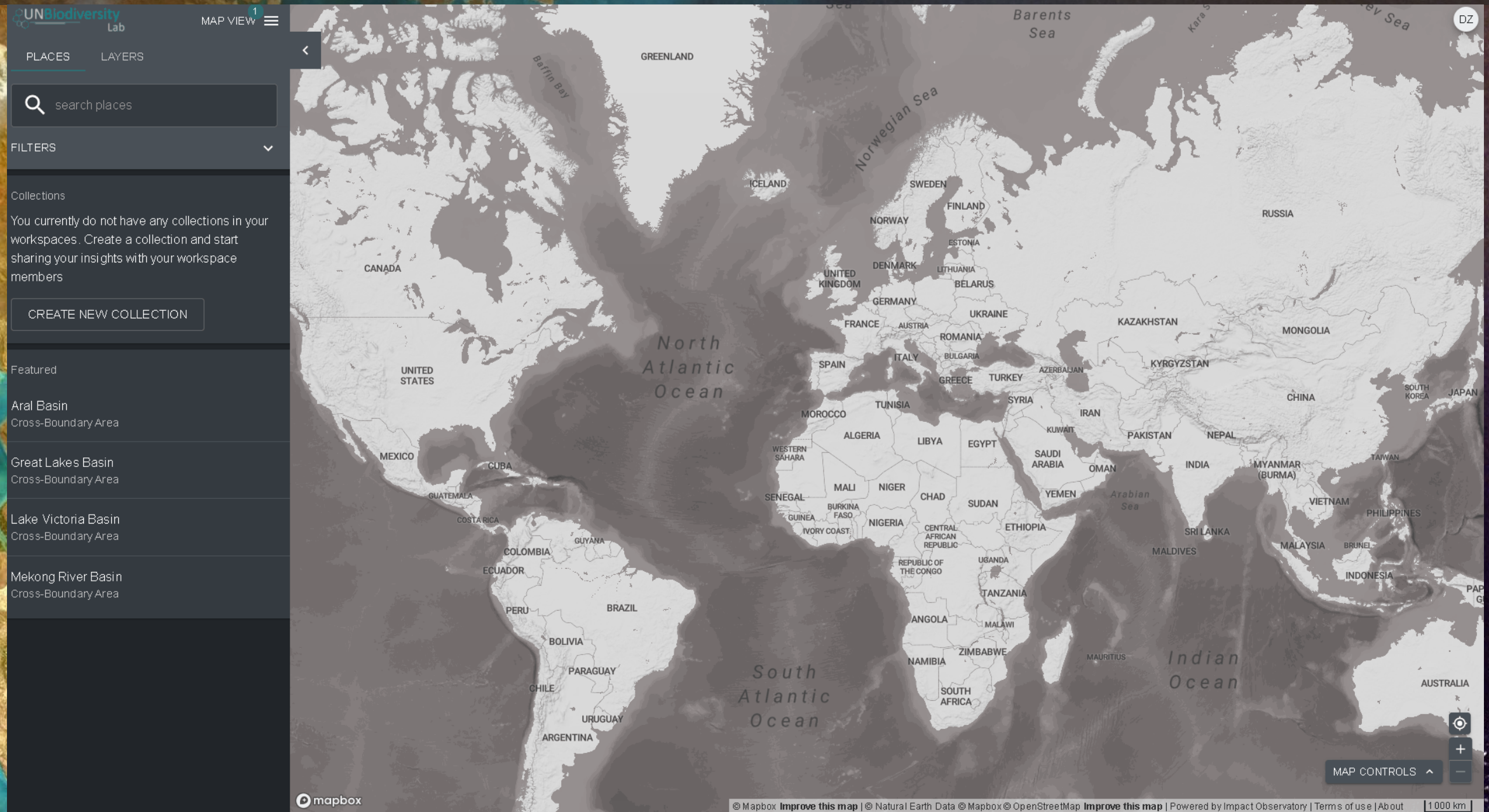


SIGN UP FOR UN BIODIVERSITY LAB

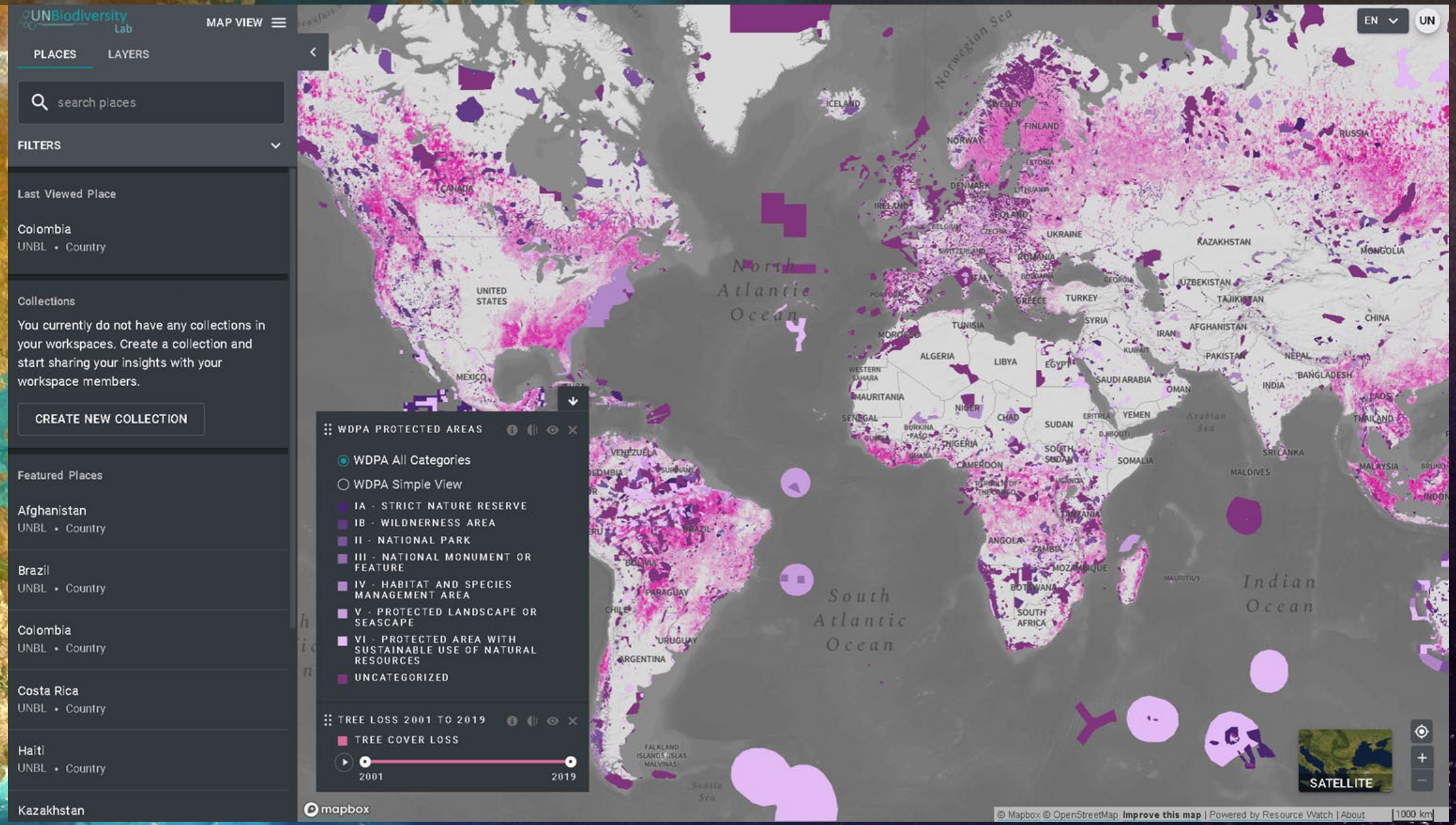



SEARCH & VIEW GLOBAL DATASETS

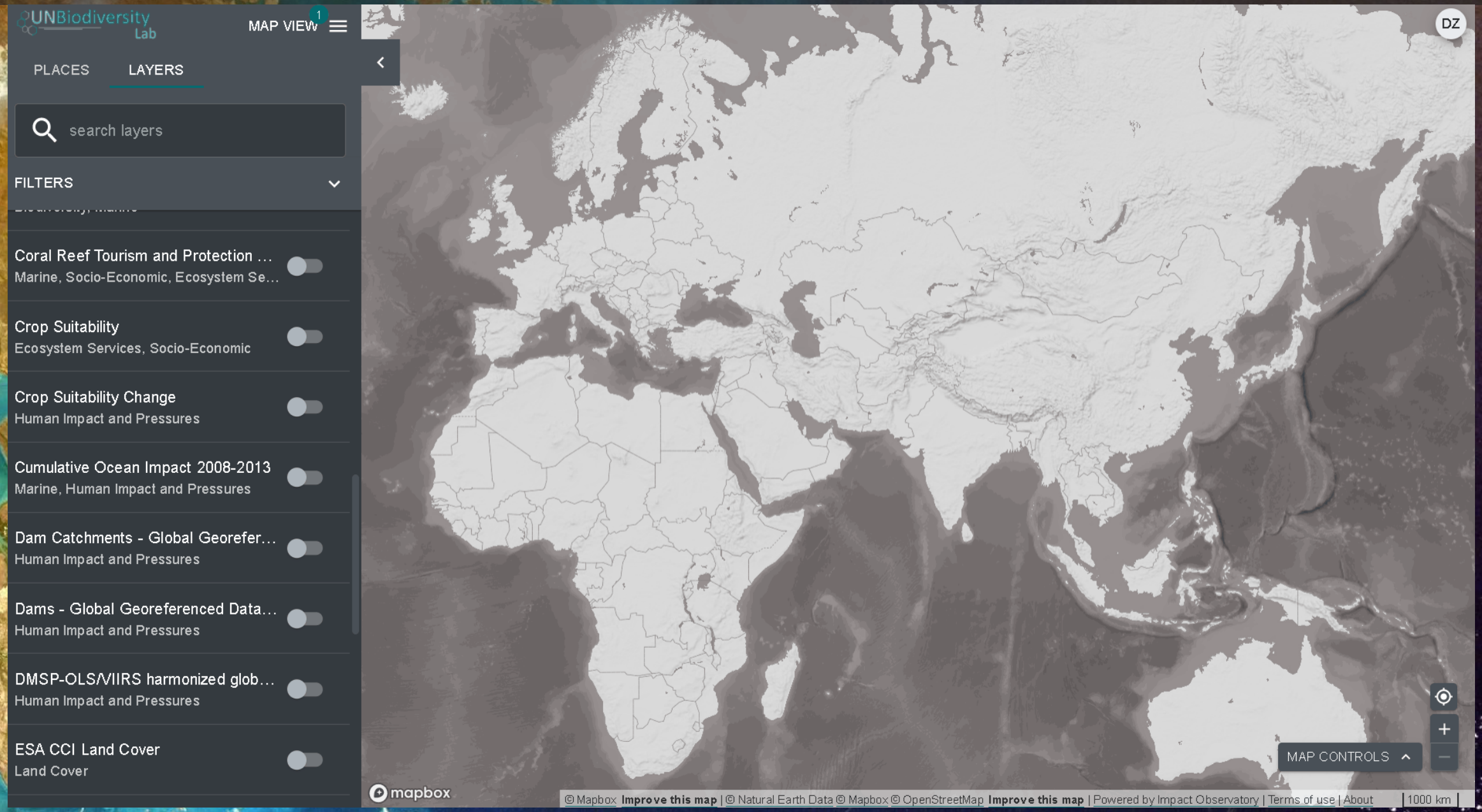
SEARCH DATA

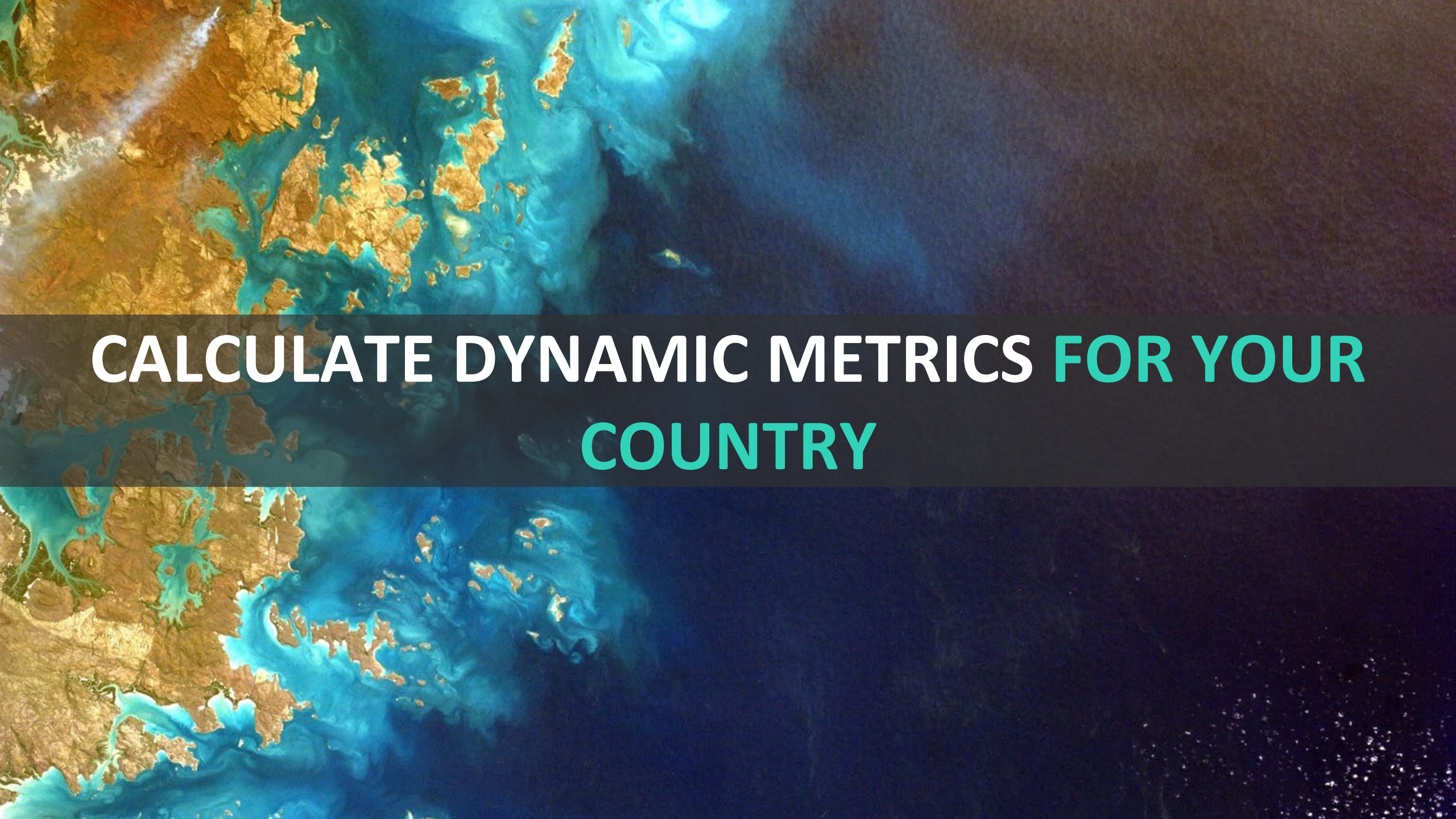

UNBiodiversity Lab
MAP VIEW
1
PLACES
LAYERS
search places
FILTERS
Collections
You currently do not have any collections in your workspaces. Create a collection and start sharing your insights with your workspace members
CREATE NEW COLLECTION
Featured
Aral Basin
Cross-Boundary Area
Great Lakes Basin
Cross-Boundary Area
Lake Victoria Basin
Cross-Boundary Area
Mekong River Basin
Cross-Boundary Area
DZ
MAP CONTROLS
mapbox
© Mapbox Improve this map | © Natural Earth Data © Mapbox © OpenStreetMap Improve this map | Powered by Impact Observatory | Terms of use | About
1000 km

VISUALIZE MULTIPLE DATA LAYERS



ADJUST BASEMAP

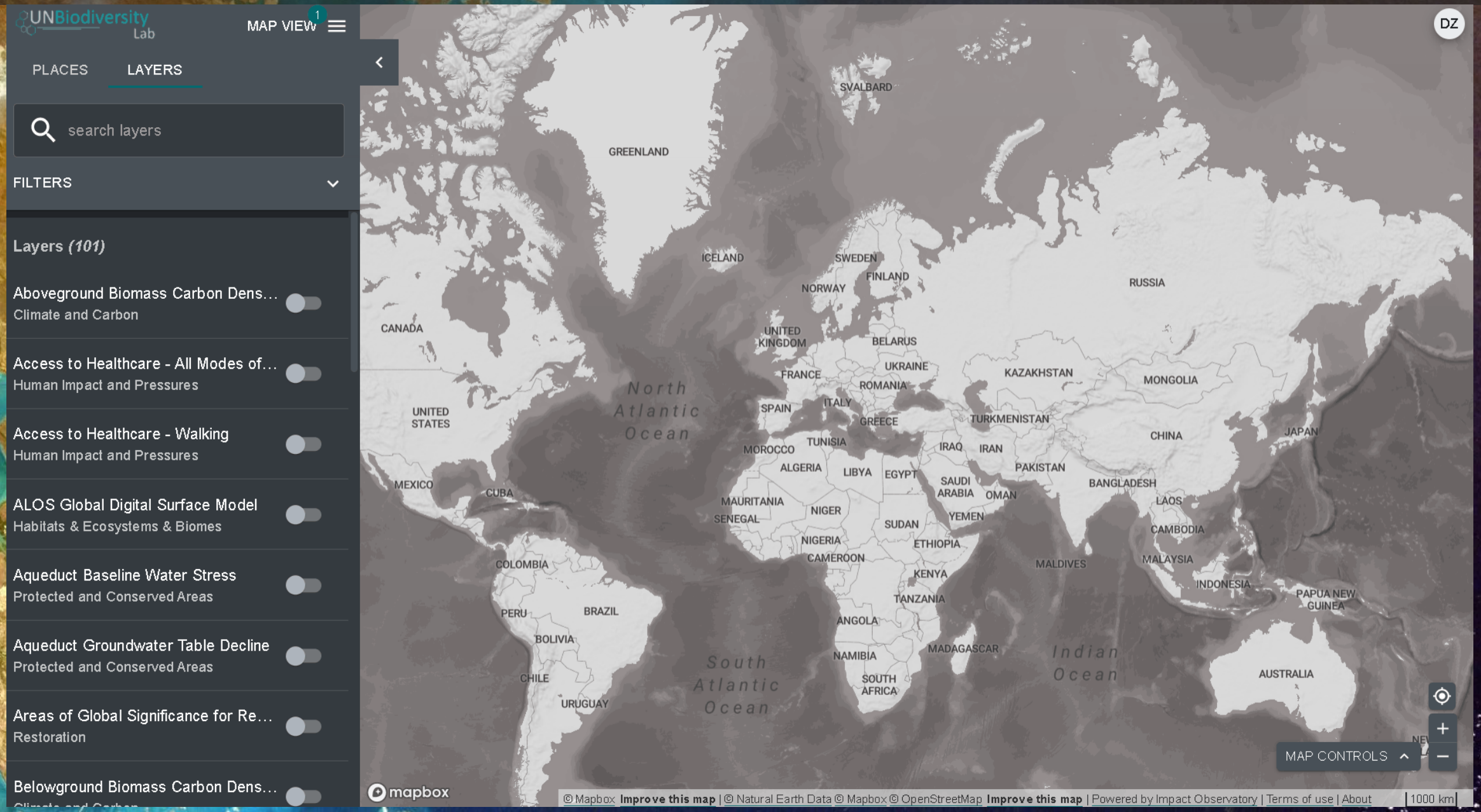



CALCULATE DYNAMIC METRICS FOR YOUR
COUNTRY

METRICS AVAILABLE FOR YOUR COUNTRY

1. Tree cover loss (2000-2020)
2. Biodiversity intactness index (2015)
3. Enhanced vegetation index (2000-2020)
4. Global land cover (2015)
5. Monthly fire activity (2001-2020)
6. Protected areas (2021)
7. Terrestrial carbon density (2010)
8. Terrestrial human footprint (2013)

FIND YOUR COUNTRY



CALCULATE DYNAMIC METRICS

UNBiodiversity Lab MAP VIEW

PLACES LAYERS

search places

FILTERS

LAST VIEWED PLACE

Colombia
UNBL • Country

COLLECTIONS

You currently do not have any collections in your organizations.Create a collection and start sharing your insights with your organization members.

CREATE NEW COLLECTION

FEATURED PLACES

Colombia
UNBL • Country

Costa Rica
UNBL • Country

Haiti
UNBL • Country

Kazakhstan
UNBL • Country

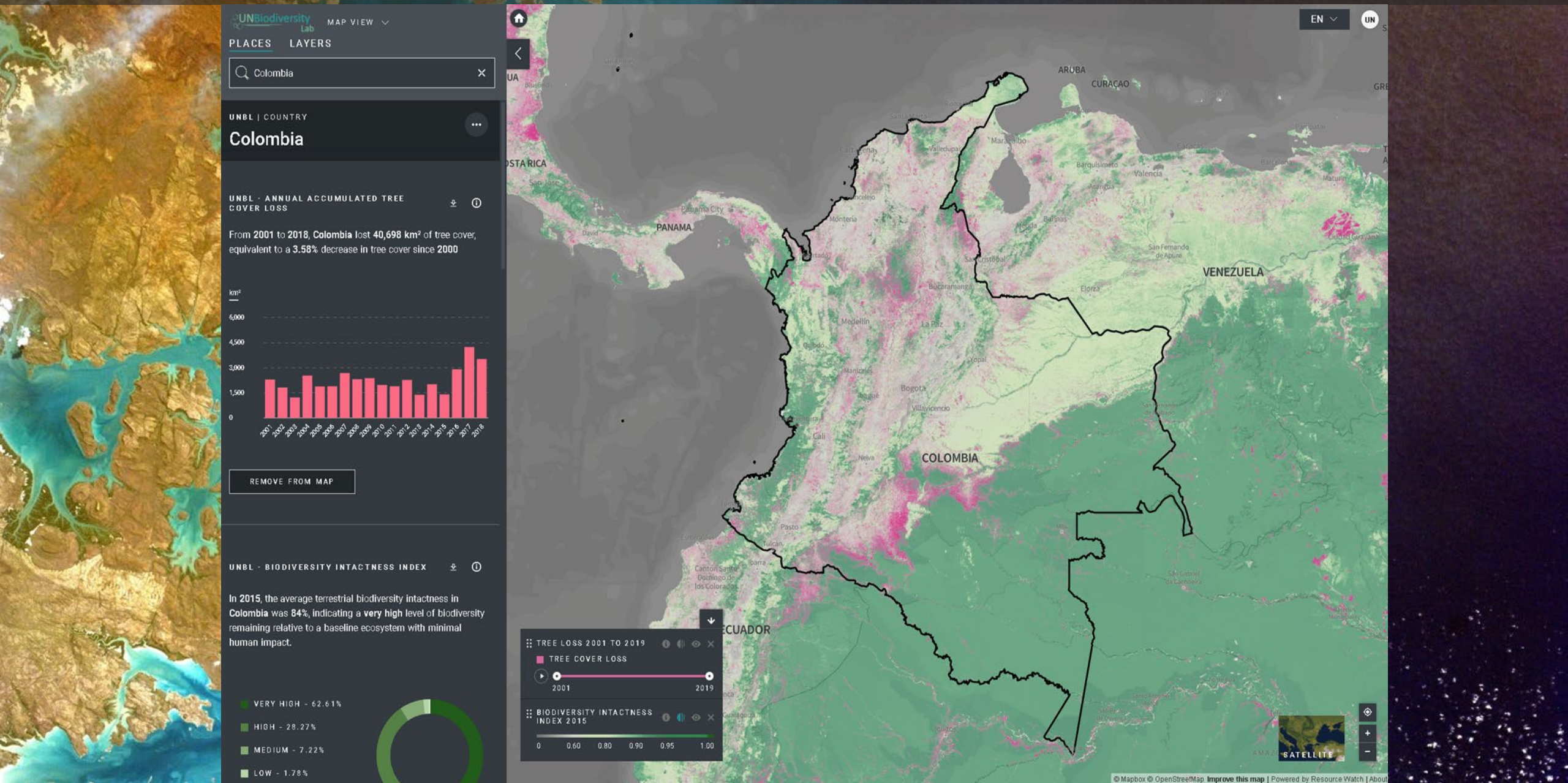
Nepal
UNBL • Country

Peru
UNBL • Country

Turkey
UNBL • Country

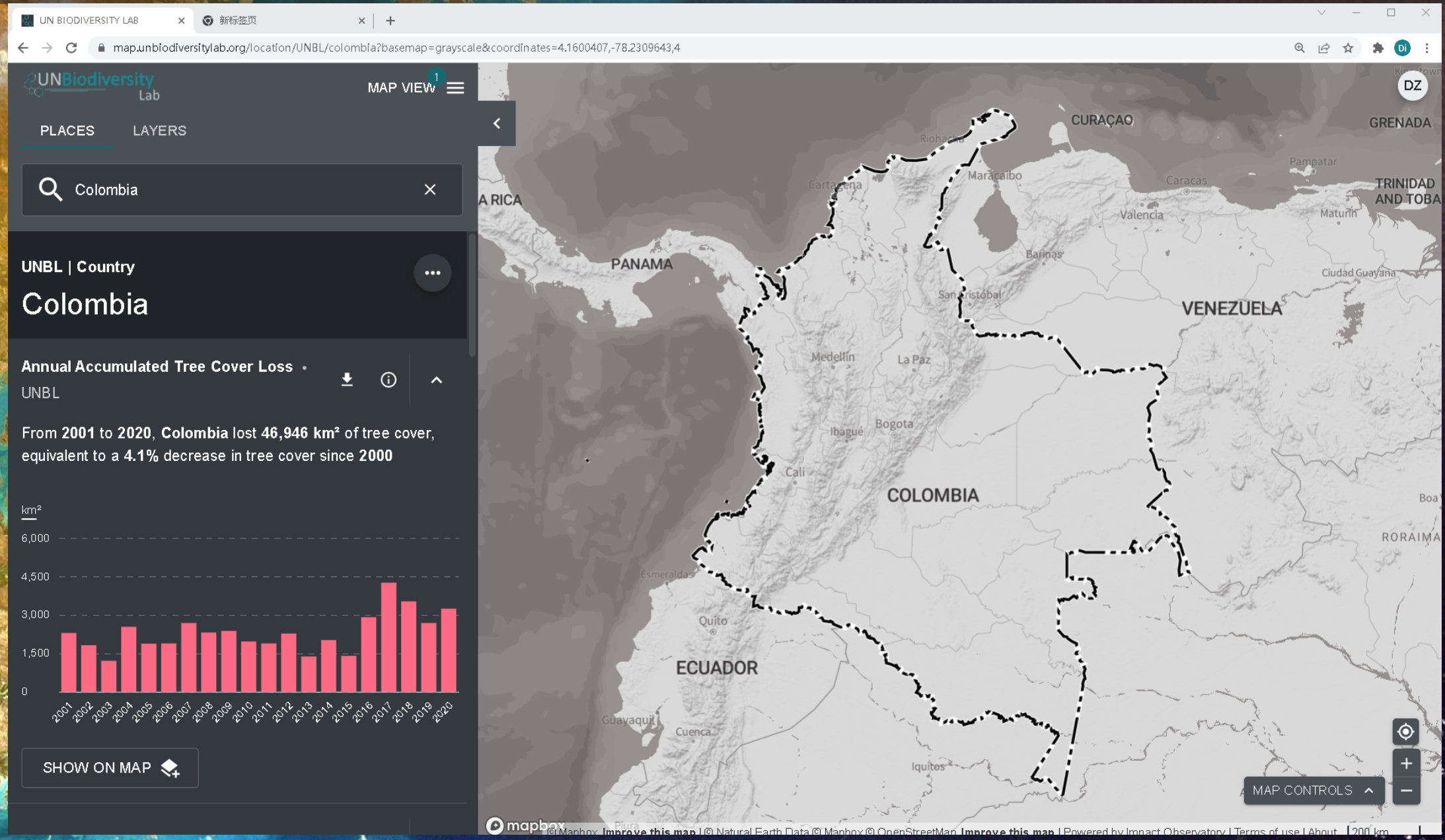
Uganda
UNBL • Country

ACCESS INFO & DOWNLOAD DYNAMIC METRICS

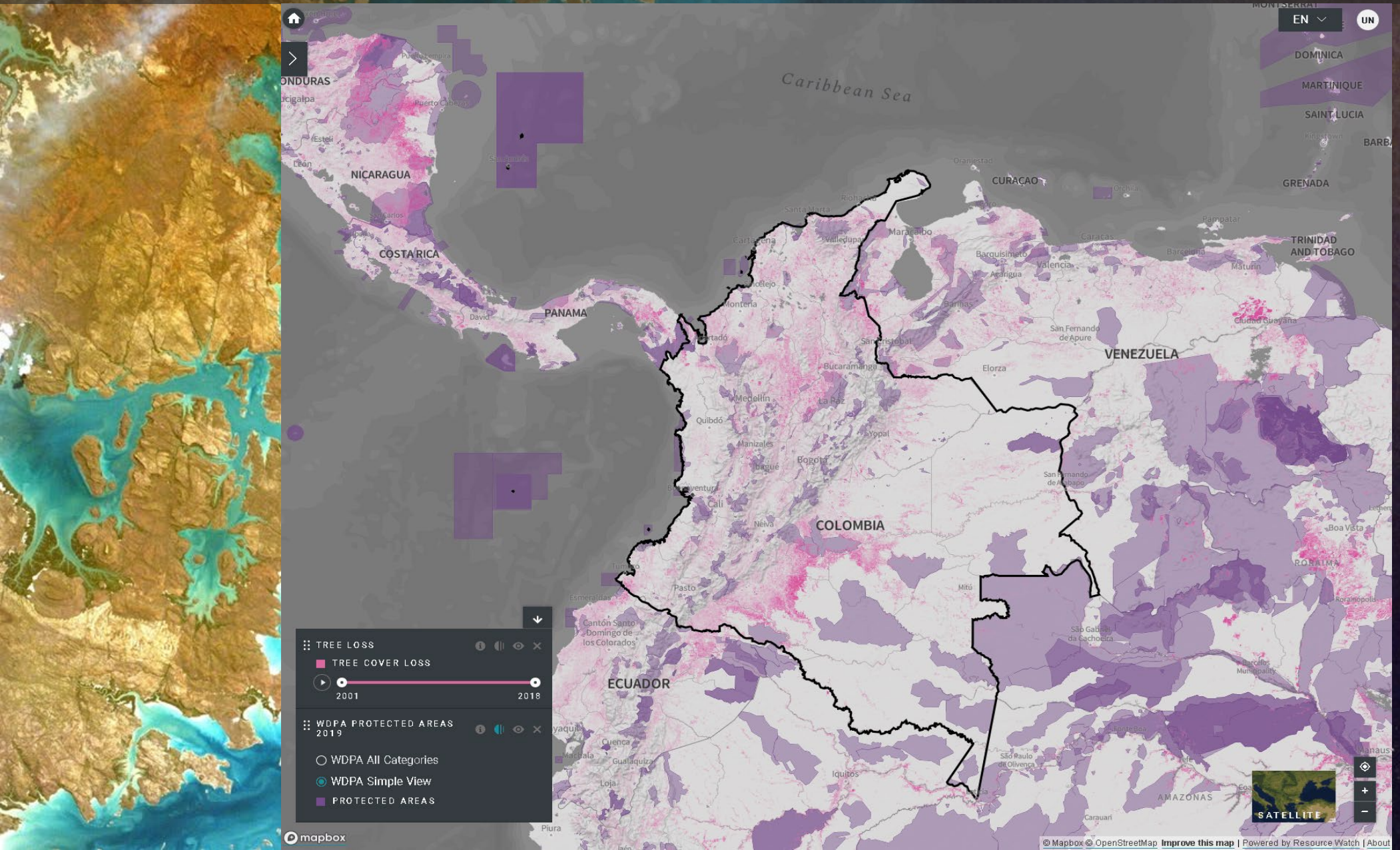



SHARE VIEWS, CREATE MAPS, & DOWNLOAD DATA

SHARE VIEWS


UN BIODIVERSITY LAB
新标签页
map.unbiodiversitylab.org/location/UNBL/colombia?basemap=grayscale&coordinates=4.1600407,-78.2309643,4
UNBiodiversity Lab
MAP VIEW
PLACES
LAYERS
Colombia
UNBL | Country
Colombia
Annual Accumulated Tree Cover Loss
UNBL
From 2001 to 2020, Colombia lost 46,946 km² of tree cover, equivalent to a 4.1% decrease in tree cover since 2000
km²
6,000
4,500
3,000
1,500
0
2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020
SHOW ON MAP
DZ
CURAÇAO
GRENADA
TRINIDAD AND TOBA
PANAMA
VENEZUELA
COLOMBIA
ECUADOR
Cartagena
Maracaibo
Caracas
Valencia
Barinas
Ciudad Guayana
Medellín
La Paz
Ibagué
Bogota
Cali
Esmeraldas
Quito
Guayaquil
Cuenca
Iquitos
RORAIMA
MAP CONTROLS
mapbox

MAKE MAPS | CAPTURE IMAGE



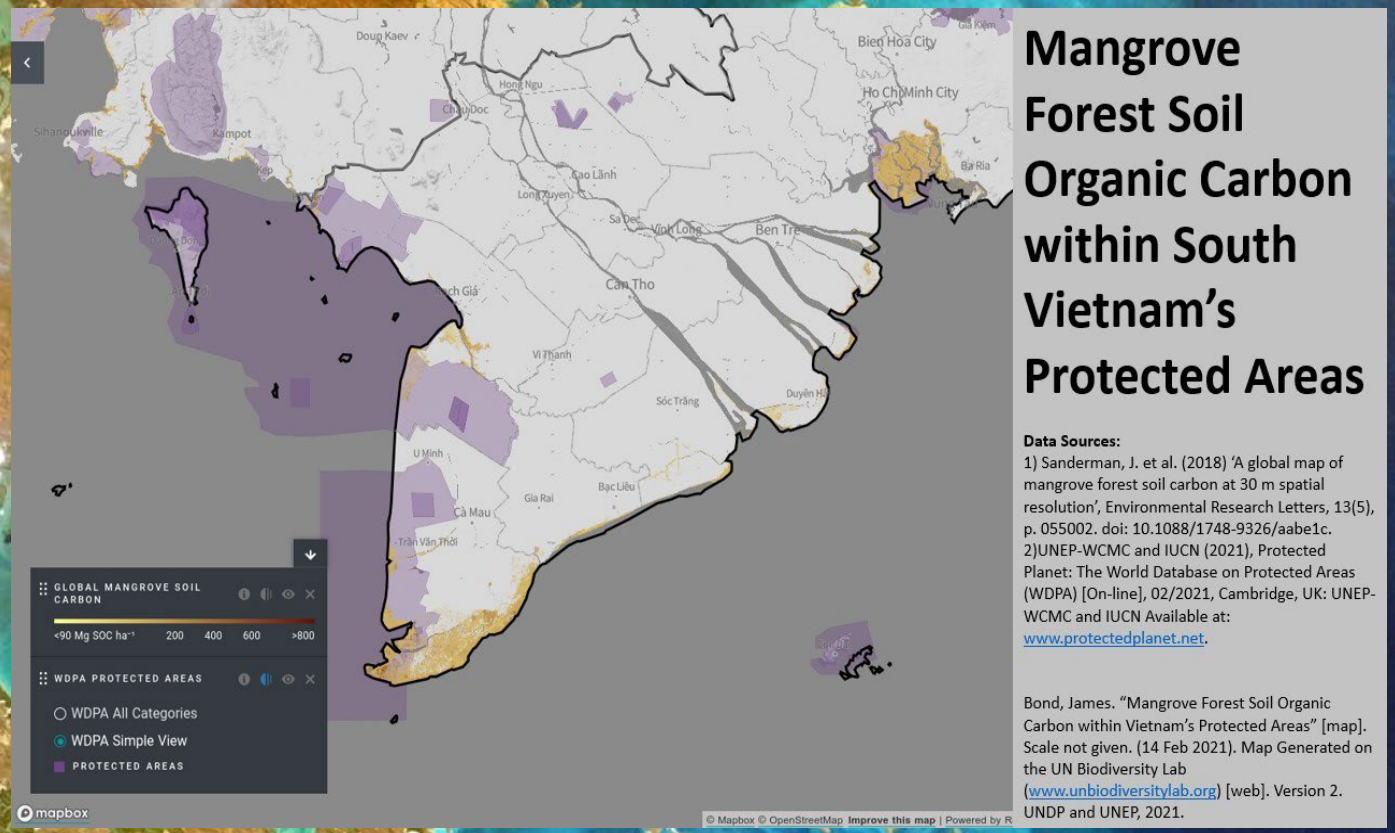
MAKE MAPS | MAPPING STANDARDS

- Maps should be clear and concise.
- Important text on maps should be clear and legible (e.g., cities, place names, legend items, etc.).
- The map should include basic mapping elements, including a legend of relevant data layers and scale bar.
- The map must provide correct attribution(s) and citation(s) for the data source(s) used in its creation; either on the map itself or in a caption describing the map.

MAKE MAPS | CITATION

1. Cite all data sources shown on the map; either on the map itself or in a figure caption.
2. Include full citations for data citations used in the references section of the document.

- UNEP-WCMC and IUCN (2021), Protected Planet: The World Database on Protected Areas (WDPA) [On-line], 02/2021, Cambridge, UK: UNEP-WCMC and IUCN Available at: www.protectedplanet.net.
- Generated on the UN Biodiversity Lab. (year). http://unbiodiversitylab.org/. Accessed DD/MM/YY. DOI:10.34892/95q9-mp91



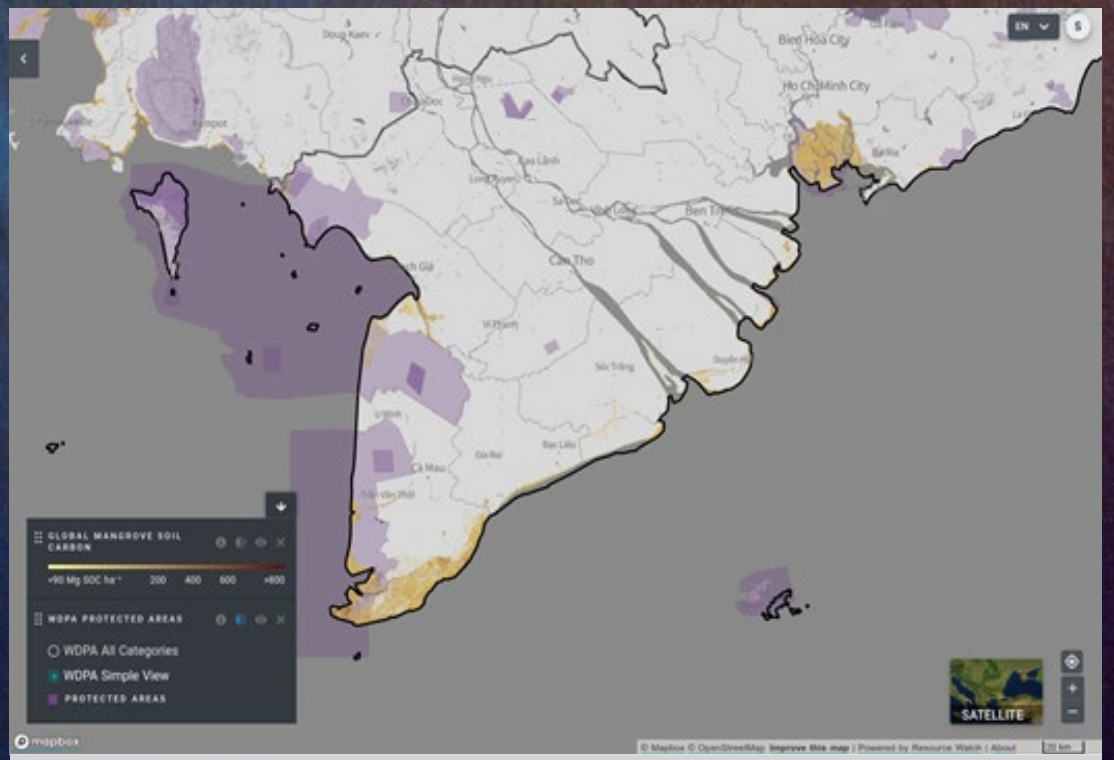
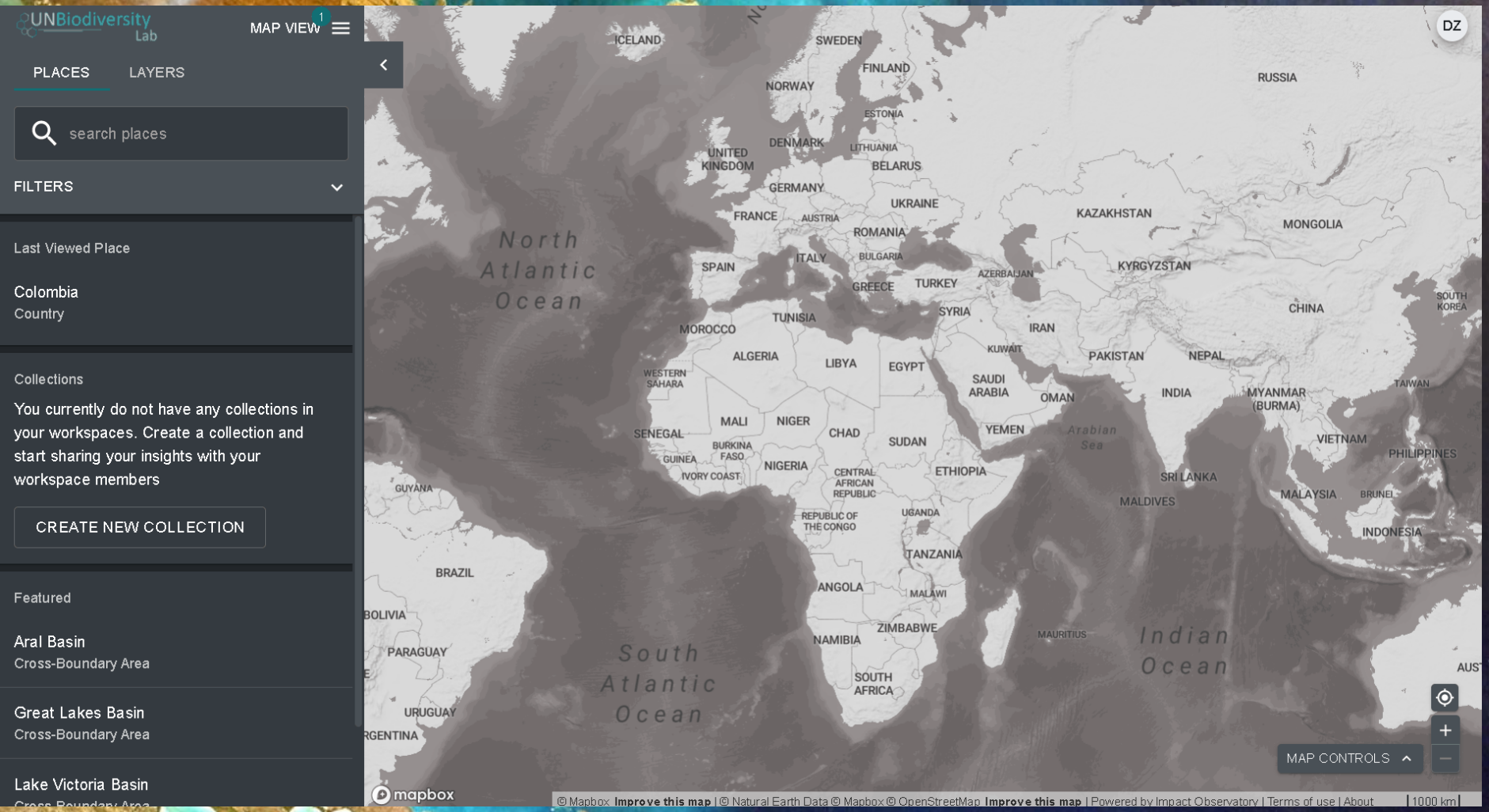
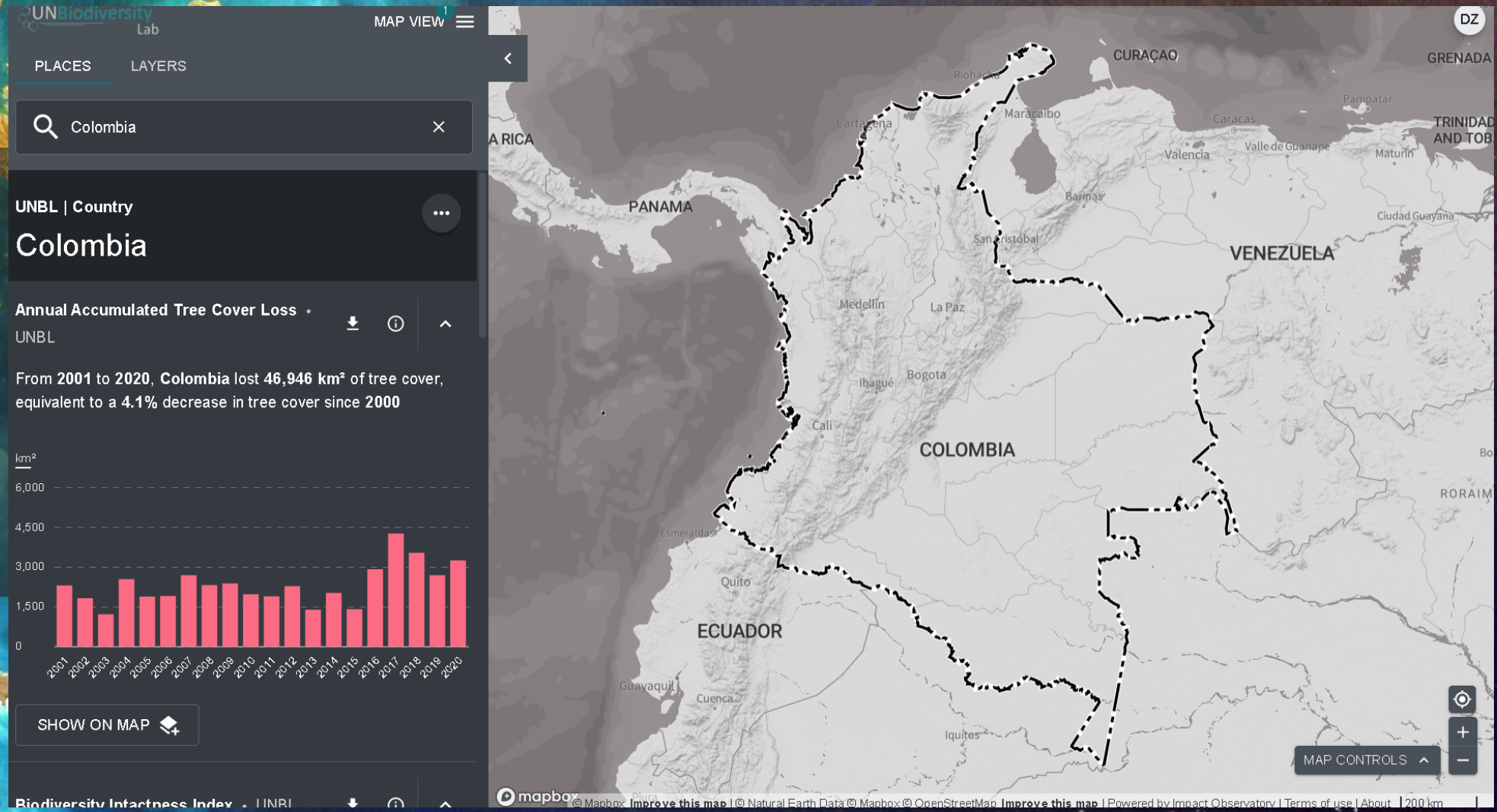


Figure 1 shows the estimated soil organic carbon present in mangroves (from Sanderman, et al., 2018) within protected areas in Southern Vietnam (UNEP-WCMC and IUCN, 2021). Created by James Bond using UN Biodiversity Lab (www.unbiodiversitylab.org) on 14 February, 2021.

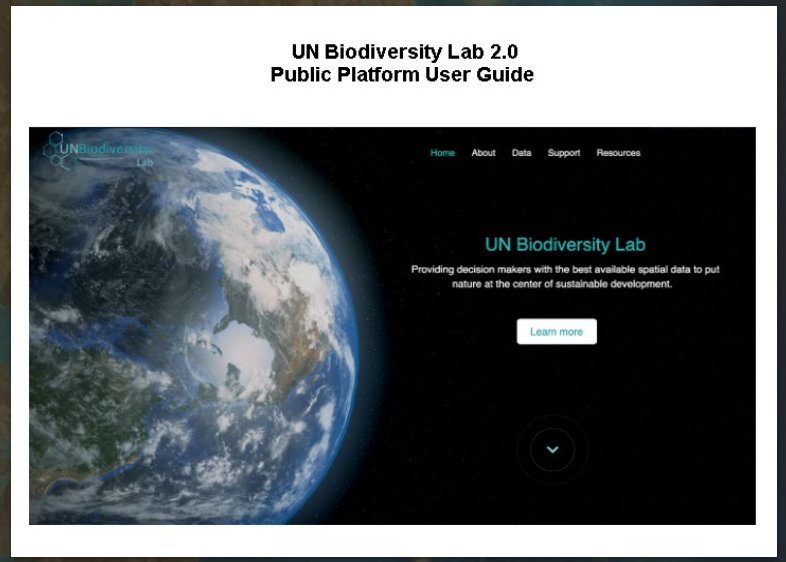


DOWNLOAD DATA | CLIPPED TO COUNTRY

DOWNLOAD DATA | GLOBAL RANGE



CONCLUSIONS



Public Platform Technical Guidance
https://bit.ly/33SOOjN

Advanced Lab 1: Mastering the UNBL Public Platform

- Deep dive on UNBL public platform functionalities
- Independent exercise on the use of public platform

April 27th, 2022


UNBL SECURE WORKSPACES

WHAT IS A UNBL WORKSPACE?

- Secure, password-protected space for collaboration
- Limit access to a discrete set of users
- Upload your national or subnational data layers
- Upload your areas of interest
- Calculate dynamic metrics
- Available for governments, UN agencies, NGOs, Indigenous Peoples organizations, and research institutions

Contacts

Follow us on Twitter
@NASAARSET

- Trainers:
  - Amber Jean McCullum: AmberJean.McCullum@nasa.gov
  - Juan Torres-Pérez: juan.l.torresperez@nasa.gov
  - Annie Virnig: anne.virnig@undp.org
  - Di Zhang: di.zhang@undp.org
- Training Webpage:
  - https://appliedsciences.nasa.gov/join-mission/training/english/arset-using-un-biodiversity-lab-monitor-pulse-planet

Check out our sister programs:

Convention on Biological Diversity

UN environment
United Nations Environment Programme

UN environment programme WCMC

UNBiodiversity Lab


APPLIED REMOTE SENSING TRAINING PROGRAM
TRAIN - EMPOWER - ADVANCE

Thank You!