





Convention on Biological Diversity





Achieving Aichi Biodiversity Target 11: The Importance of Spatial Data

Stocktaking, coordination and development of monitoring plan meeting for achieving Aichi
Biodiversity Target 11 by 2020
Vilm, Germany
26 April 2019

www.unbiodiversitylab.org

















Convention on Biological Diversity





Part 1 Part 2

- Spatial data/Reporting process
- UN Biodiversity Lab and status maps

- Preliminary analyses for gaps, commitments and opportunities
- Group discussion
- Plenary
- Conclusions

























UNDP analysis of post-2010 NBSAPs and Fifth National Reports (5NR):

- On average, < than 5 maps / 5NR, < than 4 maps/NBSAP
- 80% of 5NR and 70% of NBSAP do not have maps that support decision-making
 - < than 4% of all maps focused on ecosystem services















- Provides policymakers with FREE high-quality global spatial data layers and analytic tools
- Does NOT require GIS expertise
- Enables 137 governments to access spatial data for inclusion in their 6NR.
- Supports NBSAP implementation to achieve key conservation targets.

Access to ~ 100 Global Data Layers































Center for International Earth Science Information Network





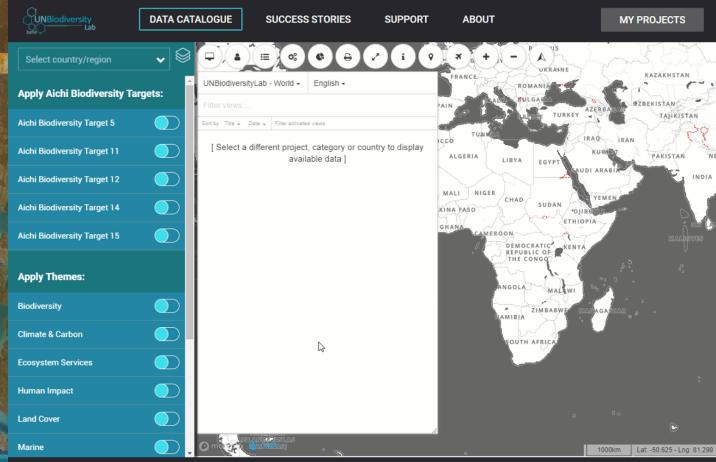




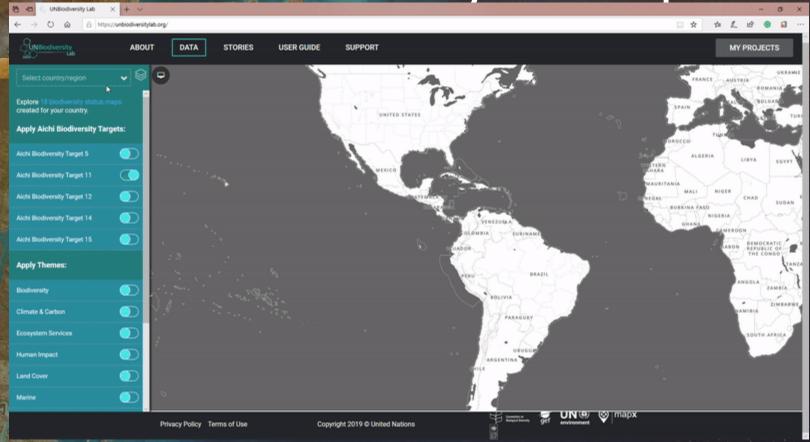




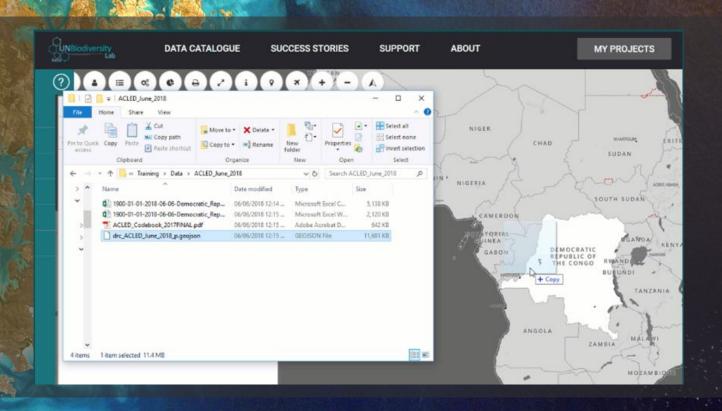
Access to ~ 100 Global Data Layers



Access 18 Biodiversity Status Maps

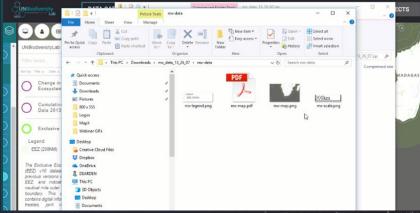


Upload National Data Layers

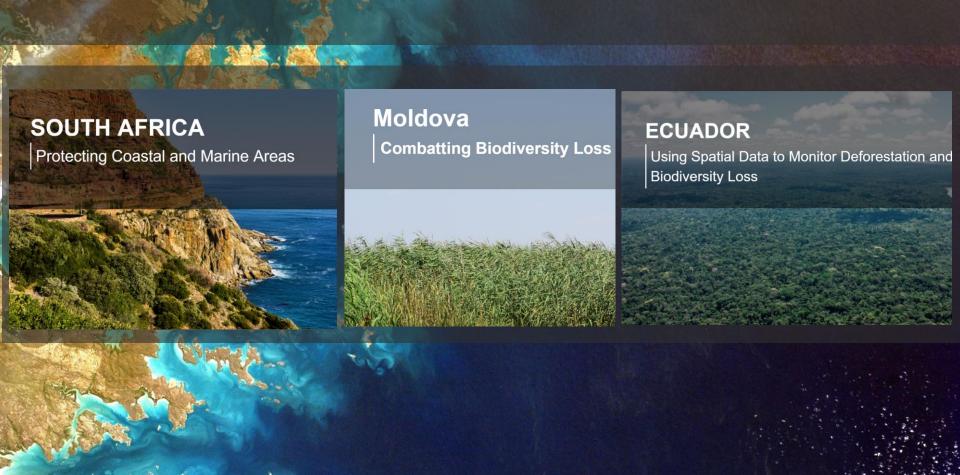


Create maps & Integrate into Reports

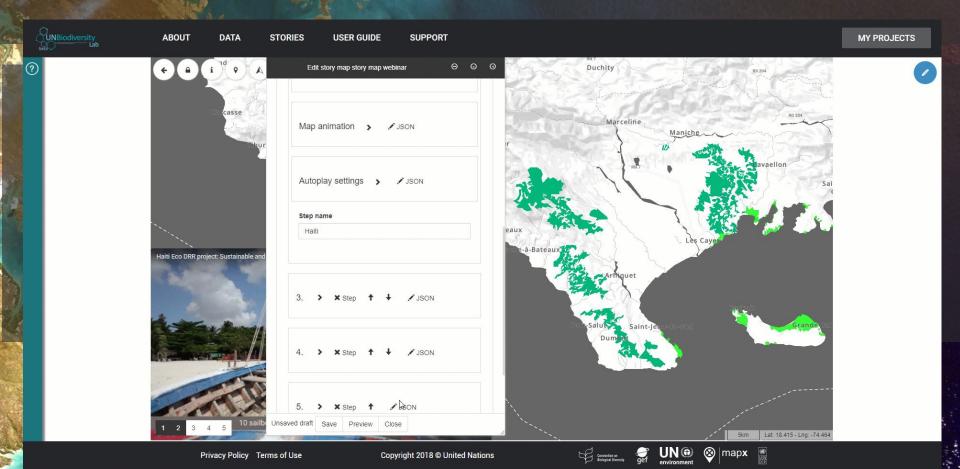


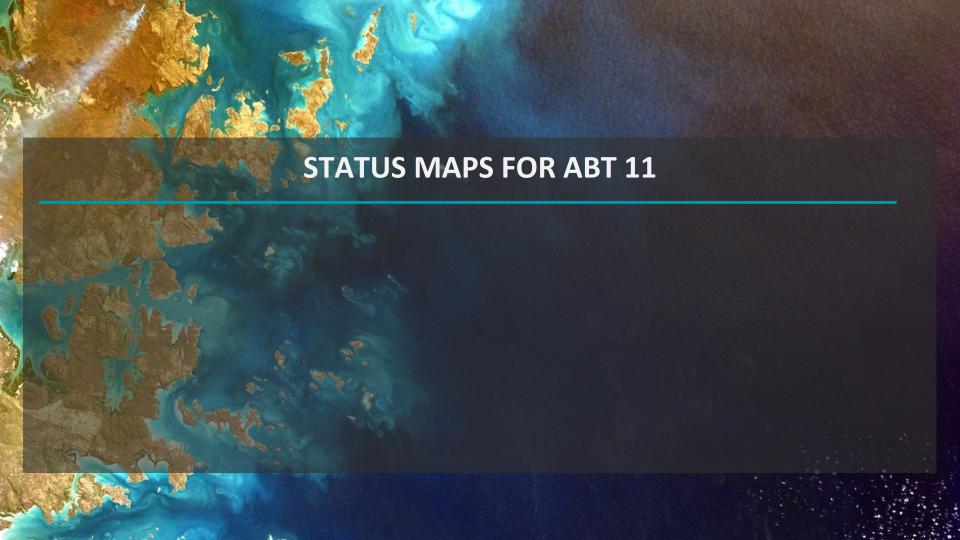


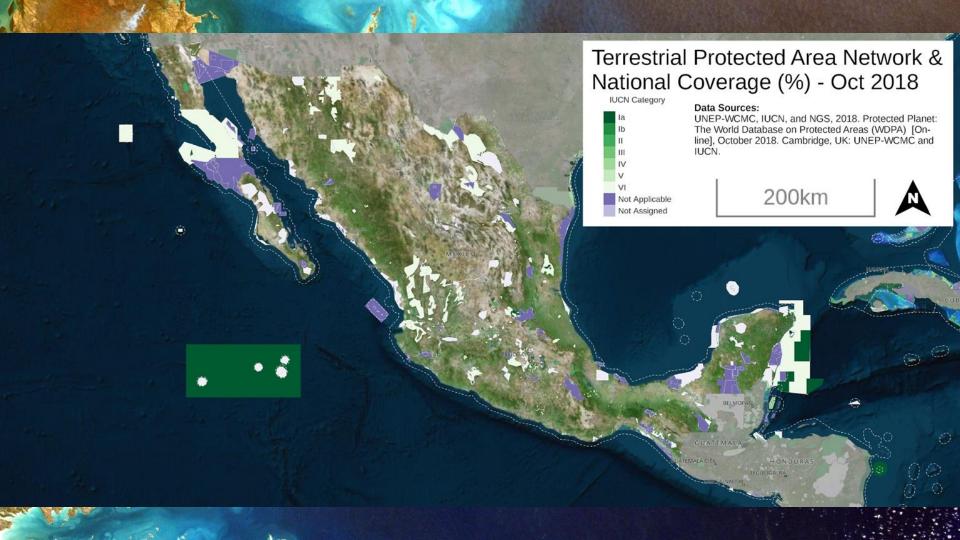
Communicate Conservation Success

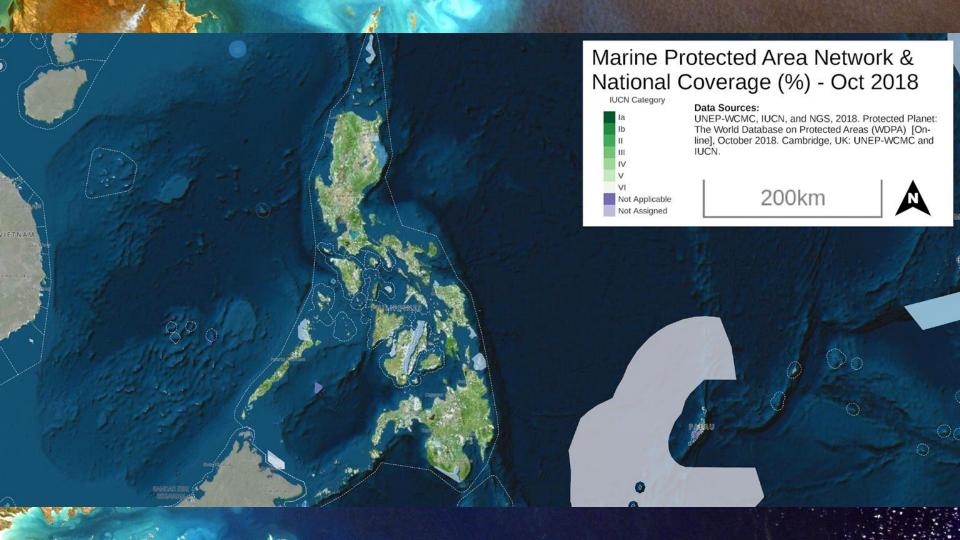


Communicate Your Conservation Success

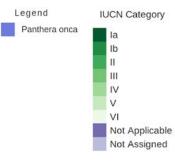








Panthera onca Range and Protected Area Network – Oct 2018



Data Sources:

UNEP-WCMC, IUCN, and NGS, 2018. Protected Planet: The World Database on Protected Areas (WDPA) [On-line], October 2018. Cambridge, UK: UNEP-WCMC and IUCN.

Panthera onca. 2018. The IUCN Red List of Threatened Species. Version 3. http://www.iucnredlist.org.



30km



Protected Coverage of Key Biodiversity Areas (KBAs)

Key Biodiversity Areas (KBAs)



Protected Areas

IUCN Category

la Ib

III

111

ı

VI

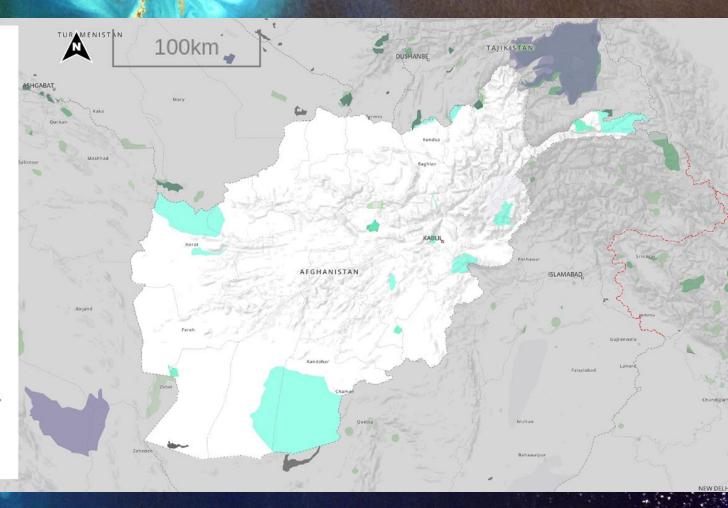
No

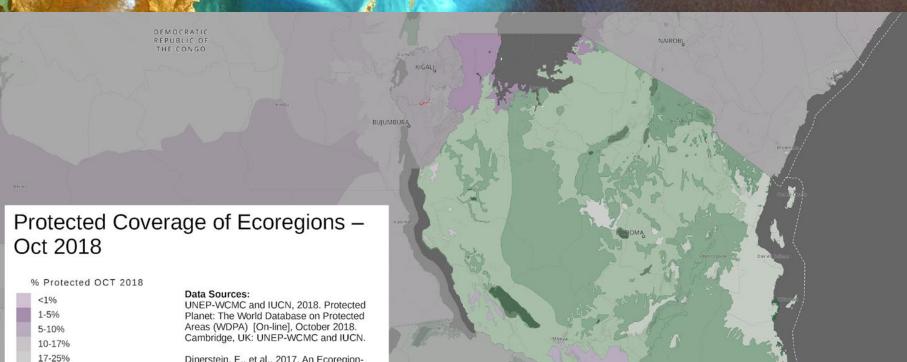
Not Applicable Not Assigned

Data Sources:

UNEP-WCMC and IUCN, 2018. Protected Planet: The World Database on Protected Areas (WDPA) [On-line], October 2018. Cambridge, UK: UNEP-WCMC and IUCN.

Langhammer, P.F., Butchart, S.H.M., Brooks, T.M., 2018. Key Biodiversity Areas, in: Dellasala, D.A., Goldstein, M.I. (Eds.), Encyclopedia of the Anthropocene. Elsevier, Oxford, pp. 341–345.





25-35% 35-45%

45-55%

43-339

>55%

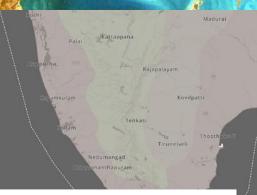
No Data

Dinerstein, E., et al., 2017. An Ecoregion-Based Approach to Protecting Half the Terrestrial Realm. BioScience 67, 534–545.



100km





Protected and Connected Coverage of Ecoregions – 2016

Protected Connected Land (%)

50

Data Sources:

UNEP-WCMC and IUCN, 2018. Protected Planet: The World Database on Protected Areas (WDPA) [On-line], October 2018. Cambridge, UK: UNEP-WCMC and IUCN.

Saura, S., Bastin, L., Battistella, L., Mandrici, A., Dubois, G., 2017. Protected areas in the world's ecoregions: How well connected are they? Ecological Indicators 76, 144–158

50km







Protected Area Management Effectiveness

Area Under Intense Pressure (%)





Human Footprint Change 1993-2009



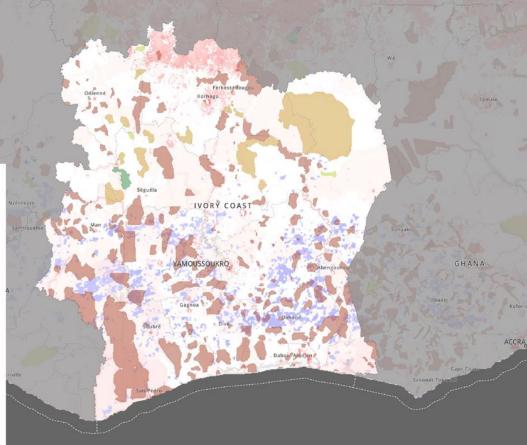
Data Sources:

Venter, O. et al., 2016. Sixteen years of change in the global terrestrial human footprint and implications for biodiversity conservation. Nature Communications, 7, pp.1–11.

Jones KR, Venter O, Fuller RA, Allan JR, Maxwell SL, Negret PJ, et al. One-third of global protected land is under intense human pressure. Science. 2018;360: 788– 791.





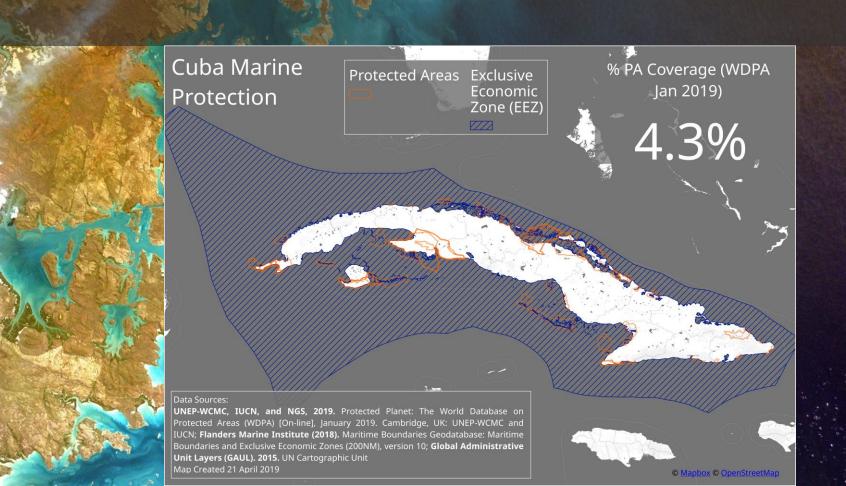




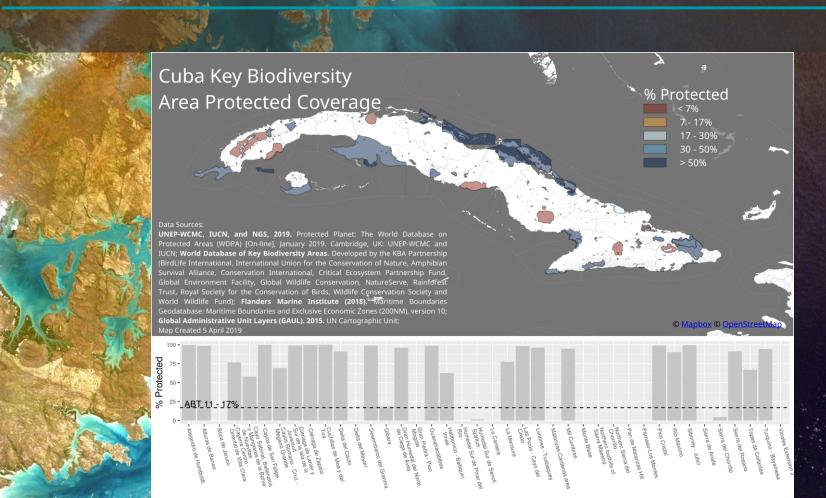
Terrestrial PA coverage



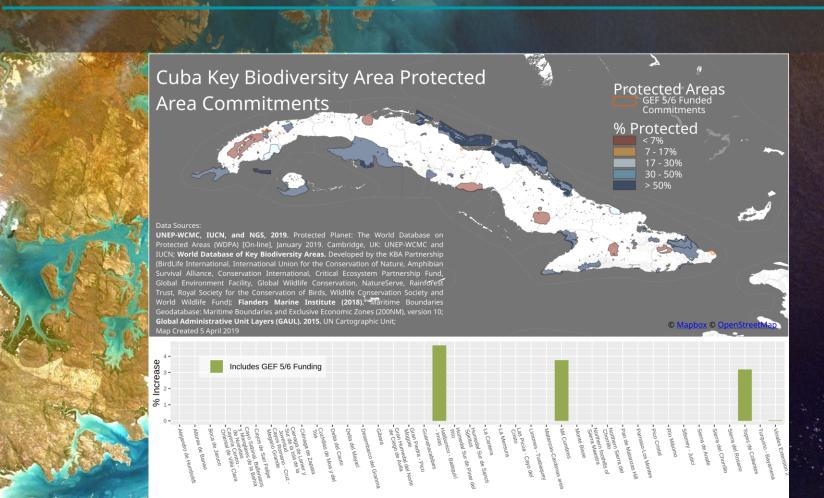
Marine PA coverage



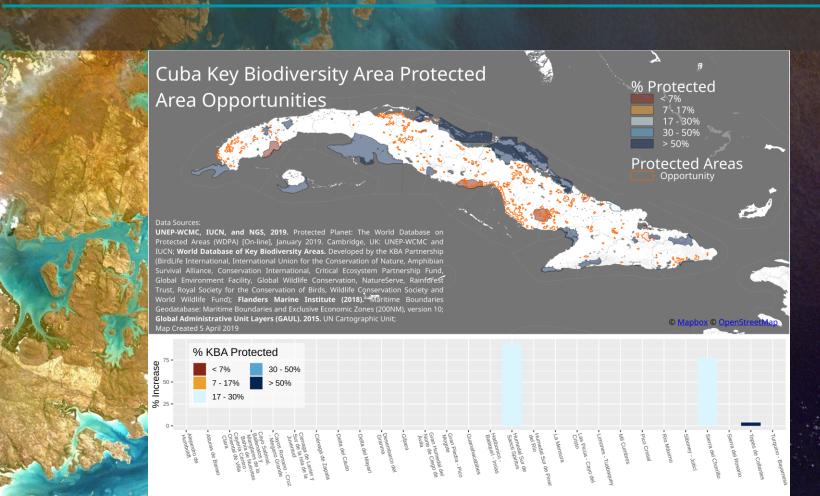
Areas important for biodiversity

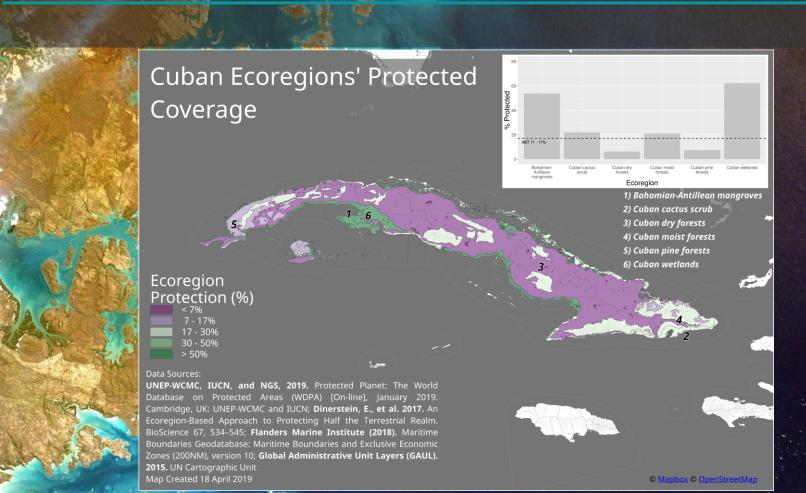


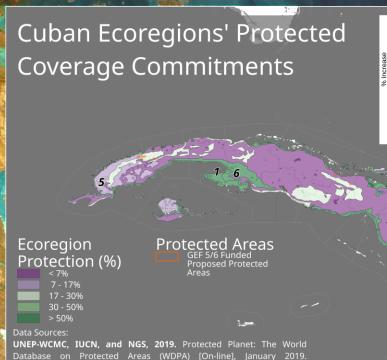
Areas important for biodiversity

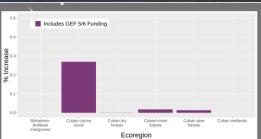


Areas important for biodiversity









- 1) Bahamian-Antillean mangroves
- 2) Cuban cactus scrub
- 3) Cuban dry forests
- 4) Cuban moist forests
- 5) Cuban pine forests
- 6) Cuban wetlands

UNEP-WCMC, IUCN, and NGS, 2019. Protected Planet: The World Database on Protected Areas (WDPA) [On-line], January 2019. Cambridge, UK: UNEP-WCMC and IUCN; Dinerstein, E., et al. 2017. An Ecoregion-Based Approach to Protecting Half the Terrestrial Realm. BioScience 67, 534–545; Flanders Marine Institute (2018). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 10; Global Administrative Unit Layers (GAUL). 2015. UN Cartographic Unit

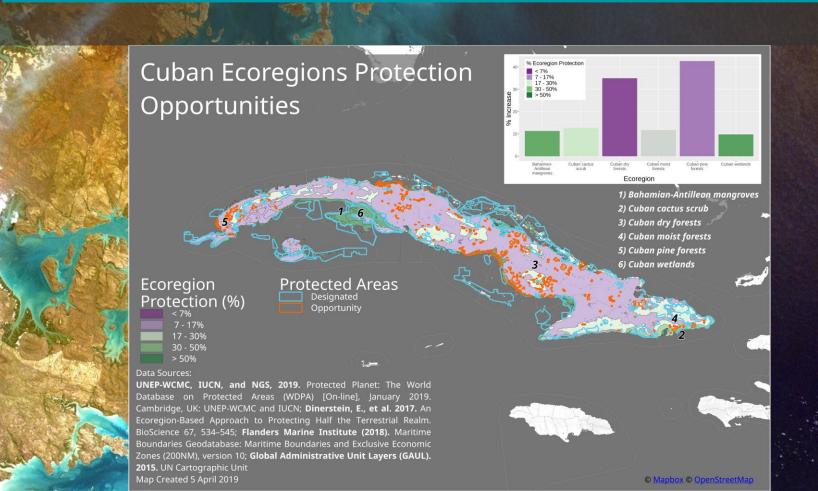
Map Created 5 April 2019

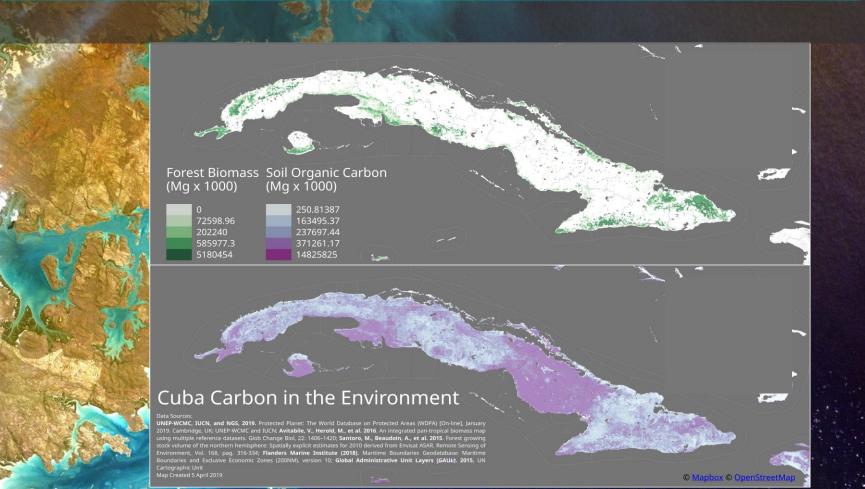
© Mapbox © OpenStreetMap

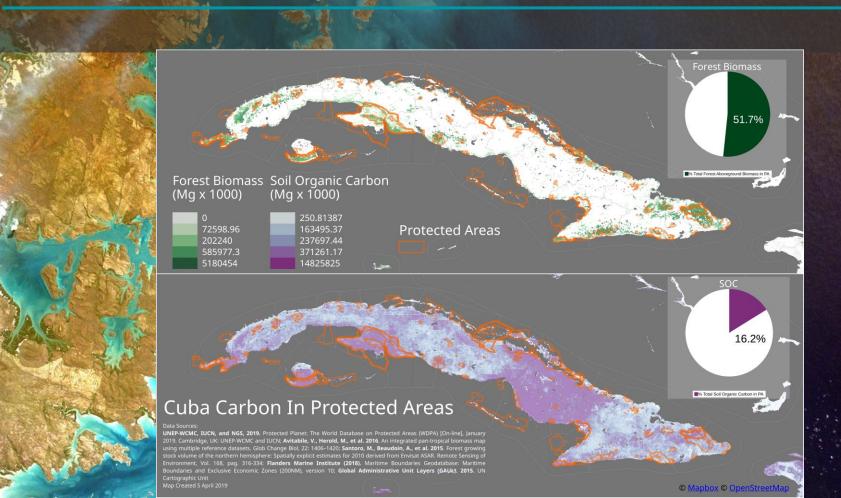
Ecoregion Name	% of ecoregion in sub-	% protected globally (Jan	
(terrestrial)	region*	2019)/GAPS	Commitments
Bahamian-Antillean			
mangroves	51.4	48.4	48.4
Cuban dry forests	99.8	6.37	6.47
Cuban cactus scrub	100	21.7	28.7
Cuban moist forests	100	21.28	23.48
Cuban pine forests	100	7.57	7.67
Cuban wetlands	100	62.61	63.61

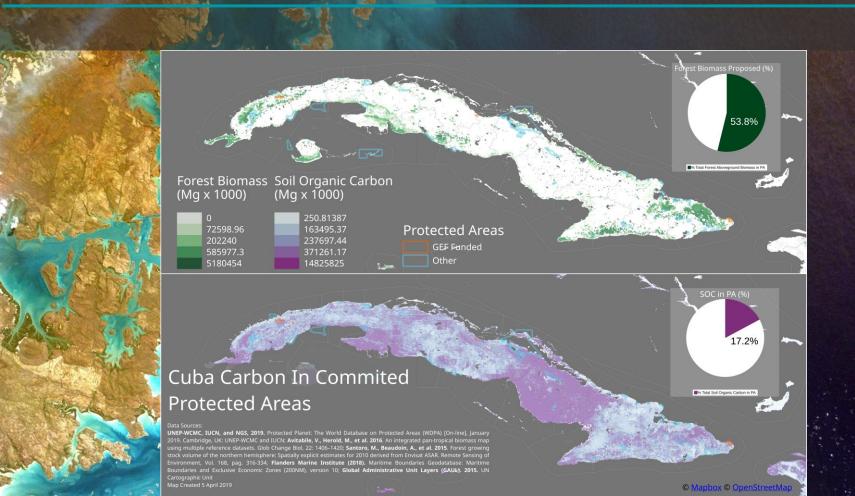


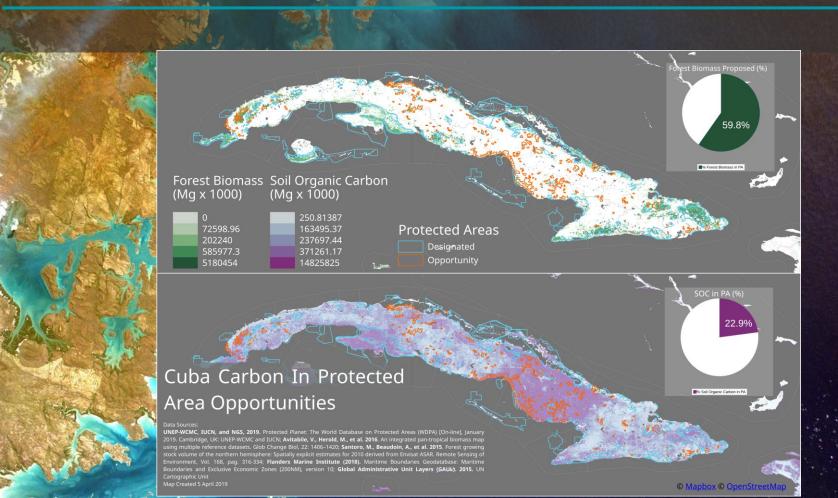


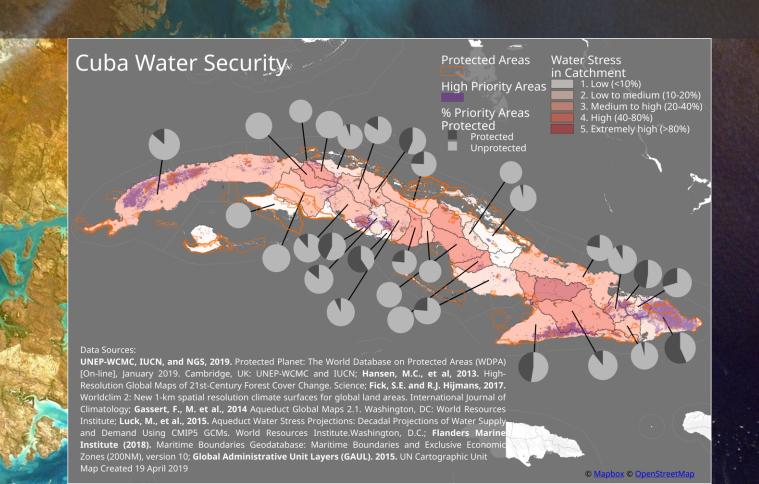


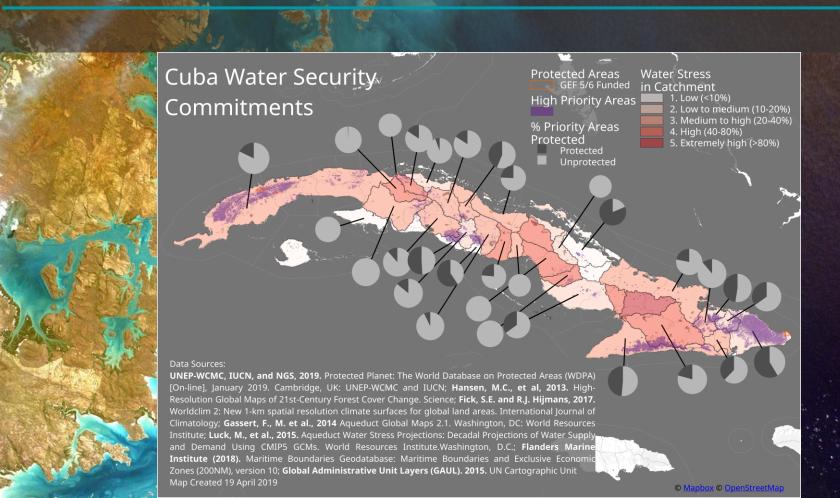


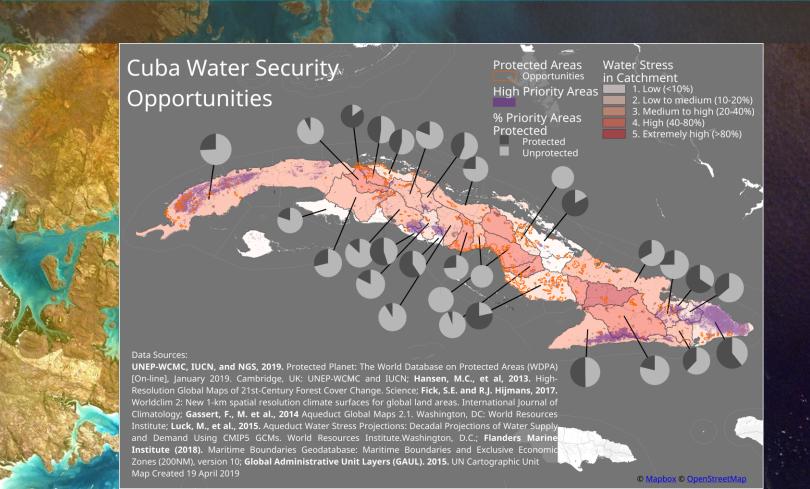












Questions for reflection

Could these maps:

- 1. Help us to identify new areas that should be protected?
- 2. Help us to ensure that new PAs not only help us to meet ABT 11 but also are key for climate change mitigation, water security, livelihoods?
- 3. What other datasets we need to refine the analyses?







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