UN Biodiversity Lab Data & Small Island Developing States

Scott Atkinson, UNDP
Main Issues:

1) Lack of Data Coverage
2) Data Spatial Resolution
1 - Lack of Coverage

Not all regions of the world have equal coverage - sometimes even neighbouring islands.

Data: Global Forest Cover (Hansen, et al. 2014)
Region: South Central Pacific
2.1 - Spatial Data Resolution

Just because data covers an area does not mean data is of much use in some SIDS.

Data: Species Richness (IUCN 2020. The IUCN Red List of Threatened Species. Version 2020-1)

Country: São Tomé & Príncipe

Species Richness

Rarity-weighted Richness
2.2 - Spatial Data Resolution

Just because data covers an area does not mean data is of much use in some SIDS.

- One ecoregion - not fine-enough resolution to distinguish difference.
- Significant Shoreline errors - can lead to significant errors in geospatial analyses

Data: Ecoregions2017 (Dinerstein, E. et al., 2017.)

Country: Cabo Verde
So let’s look at some data available on UN Biodiversity Lab for two SIDS - Comoros and Trinidad and Tobago
Comoros - Protected Areas

Terrestrial Protected Areas (WDPA)

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<th>IUCN Category</th>
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[Map showing protected areas in Comoros]
Comoros - Species Richness
Comoros - Ecoregions & MEOWs
Comoros - Livestock Density

Gridded Livestock of the World – Cattle

Legend:
- 1
- 1 - 5
- 5 - 10
- 10 - 20
- 20 - 50
- 50 - 100
- 100 - 205
- > 250

20km
Comoros - Forest Cover & Loss
Trinidad & Tobago - Protected Areas
Trinidad & Tobago - Ecoregions & MEOWs
Trinidad & Tobago - Livestock Density
Trinidad & Tobago - Forest Cover & Loss
Just to Review (1 / 2):

1. Global data often exists.
2. However, regional gaps exist - there is no one size fits all approach.
3. Shoreline issues can be significant, even with high resolution data - can lead to significant errors in geospatial analyses.
4. Global shorelines used in many global datasets are not consistent and can lead to incorrect boundaries in data.

5. New data will soon be available on species richness metrics - at improved resolution.
Comments or Questions?

Scott Atkinson: scott.atkinson@undp.org
support@unbiodiversitylab.org