### Mapping Ocean Wealth



Dr. Robert Brumbaugh The Nature Conservancy



































transforming the landscape of biodiversity conservation



























THE UNIVERSITY













# The science of ecosystem service modelling and mapping



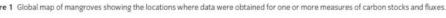




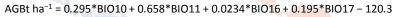








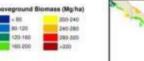










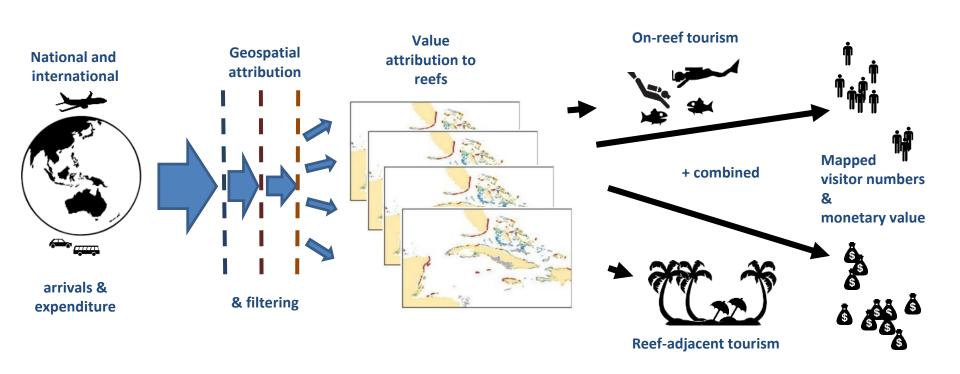




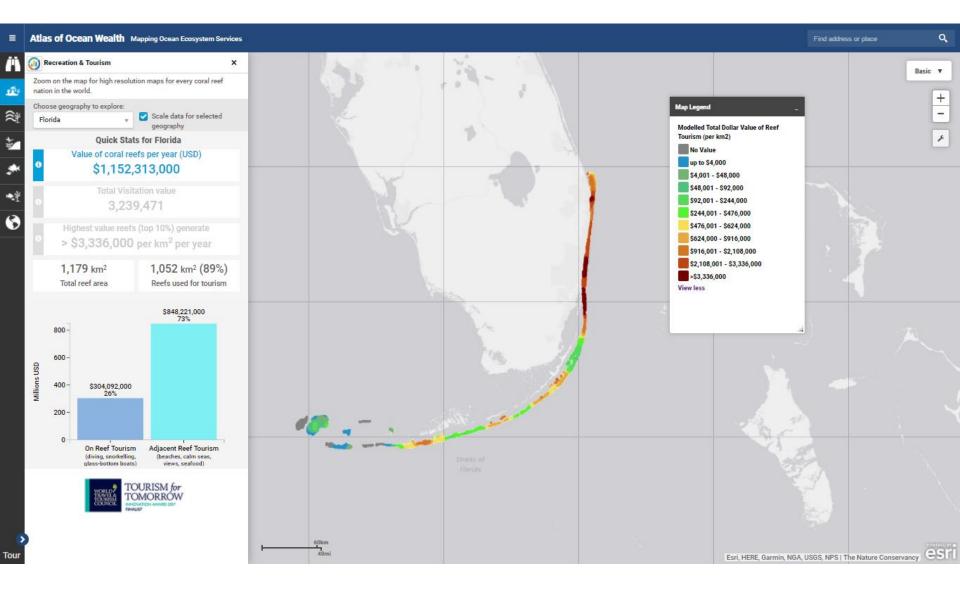


How does one arrive at a map of coral reef tourism benefits?

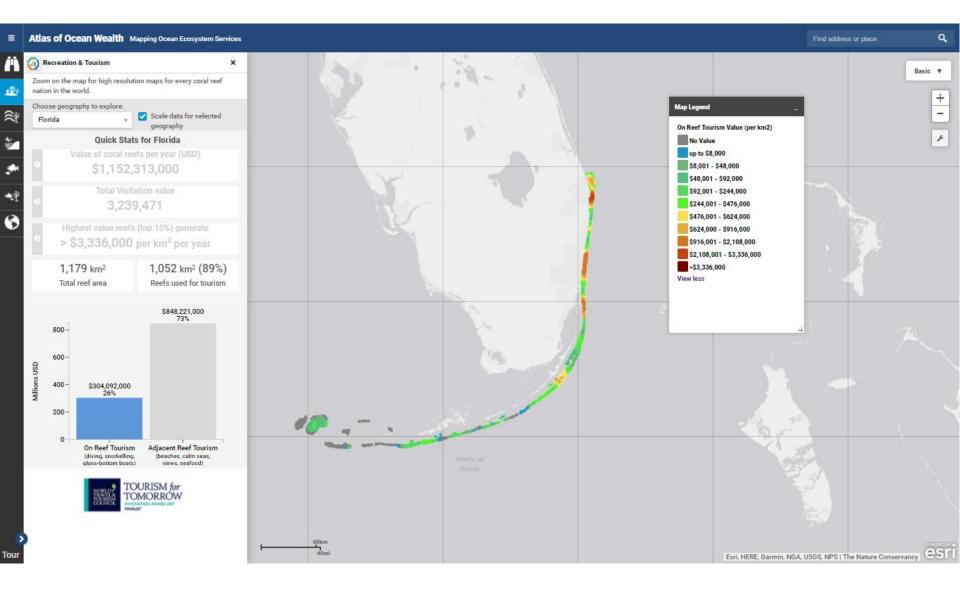
Ask a tourist for directions!



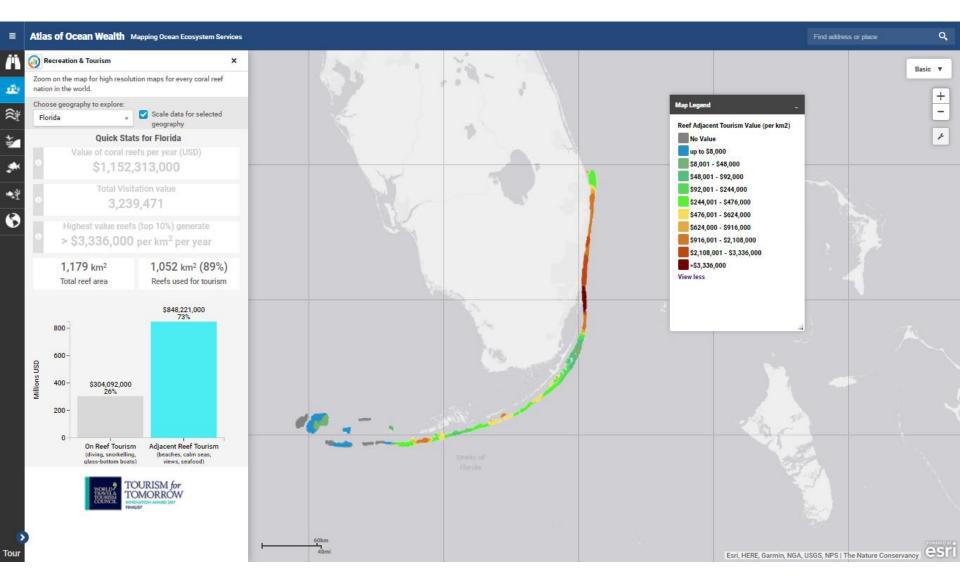
Spalding et al. 2017, Marine Policy



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#### From Local to Global: Revealing the Big Picture

>3 Million Trips

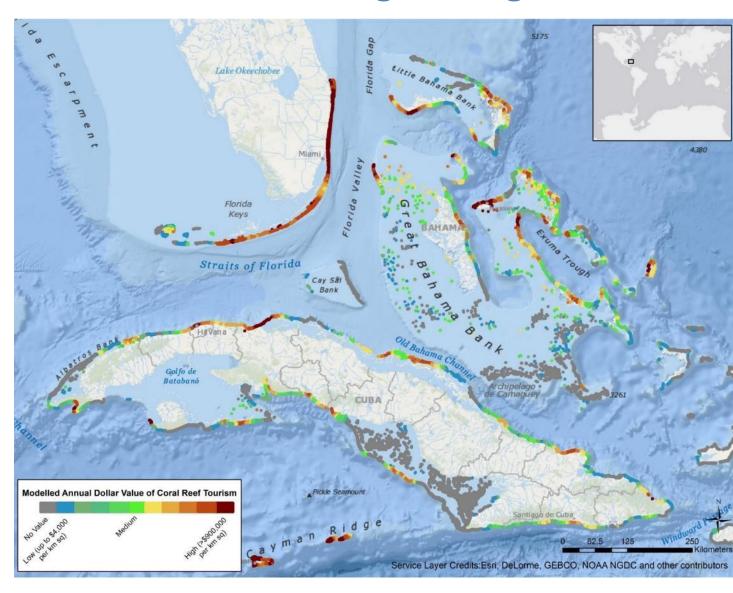
\$304M

**On-reef Tourism** 

\$848M

**Reef-adjacent Tourism** 

55
Countries with \$3M+ Dollar Reefs



### From Local to Global: Revealing the Big Picture

70 Million Trips

\$19B

**On-reef Tourism** 

\$16B

**Reef-adjacent Tourism** 

**71**Countries with Million Dollar Reefs



WORLD

#### Healthy coral reefs are good for tourism and tourism can be good for reefs



Image: The Nature Conservancy/Ami Vitale

21 Jun 2017

#### Robert Brumbaugh

Director of Ocean Planning & Protection, The Nature Conservancy









Latest Articles



The geopolitical landscape

Tourism is one of the world's largest industries, contributing trillions of dollars to the global economy and supporting the livelihoods of an estimated one in ten people worldwide.

Much of that tourism depends on the natural world-on beautiful landscapes and seascapes that visitors flock to in search of escape, a second wind, and a direct connection with nature itself.

Coastal and marine tourism represents a significant share of the industry and is an important component of the growing, sustainable Blue Economy, supporting more than 6.5 million jobs-second only to industrial fishing. With anticipated global growth rates of more than 3.5%, coastal and marine tourism is projected to be the largest value-adding segment of the ocean economy by 2030, at 26%.













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# REEF RESILIENCE NETWORK GLOBAL REACH





#### KEY TAKE AWAY MESSAGES

- A range of ecosystem benefits associated with reefs has been mapped through the <u>Ocean Wealth</u> project
- There is quite a bit of spatial variation in tourism benefits, globally and in Florida
- 'On-reef' and 'reef-adjacent' tourism benefits are not necessarily attributable to the same reefs
- Globally, just 30% of coral reefs provide tourism value in Florida, tourism value is provided by 90% of reefs, underscoring Florida's dependency on reefs for its coastal economy.
- Spatial data on ecosystem benefits are being incorporated into trainings offered through the Reef Resilience Network, and can inform conservation and management investment decisions.

## Mapping Ocean Wealth



**THANK YOU!** 



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