

# **OBIS-SEAMAP:**

**Ocean Biogeographic Information System  
Spatial Ecological Analysis of Megavertebrate Populations**

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Nicholas School of the Environment  
Duke University**



# THANK YOU!

Contributors: <http://seamap.env.duke.edu/provider/list>

## Collaborative Contributions



SAN DIEGO STATE  
UNIVERSITY

Tethys Metadata Project



Marine Mammal  
Council



## Past Funding



Alfred P. Sloan  
FOUNDATION



National  
Oceanographic  
Partnership  
Program



NATIONAL SCIENCE  
FOUNDATION



USGS  
science for a changing world



NFWF



UNITED STATES  
NAVY



HCR



Marine  
Geospatial  
Ecology  
Lab



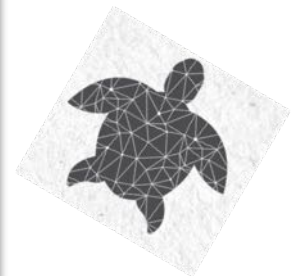
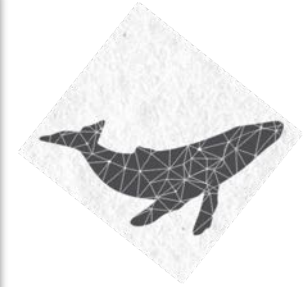
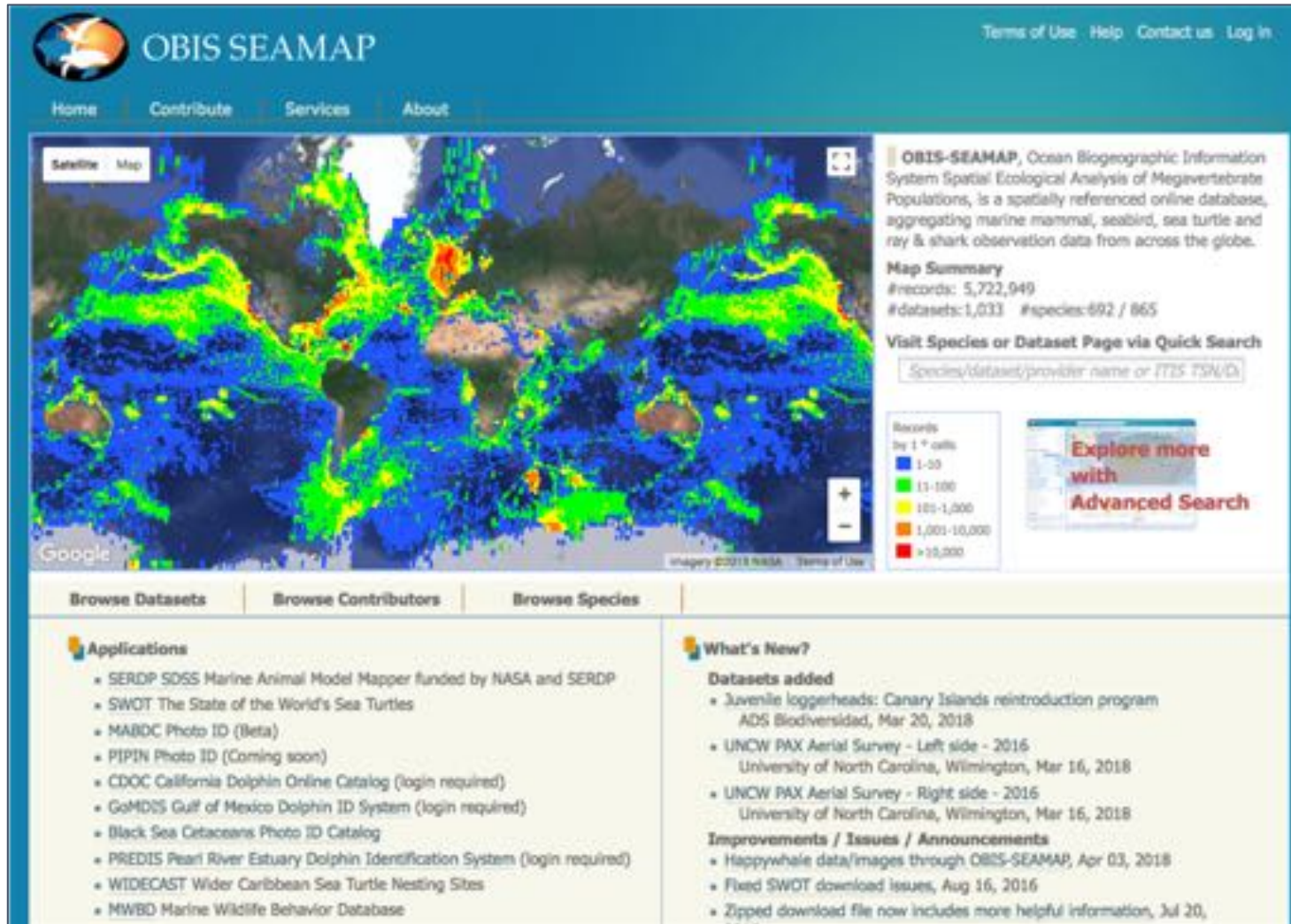
OBIS SEAMAP



Duke  
NICHOLAS SCHOOL OF THE  
ENVIRONMENT

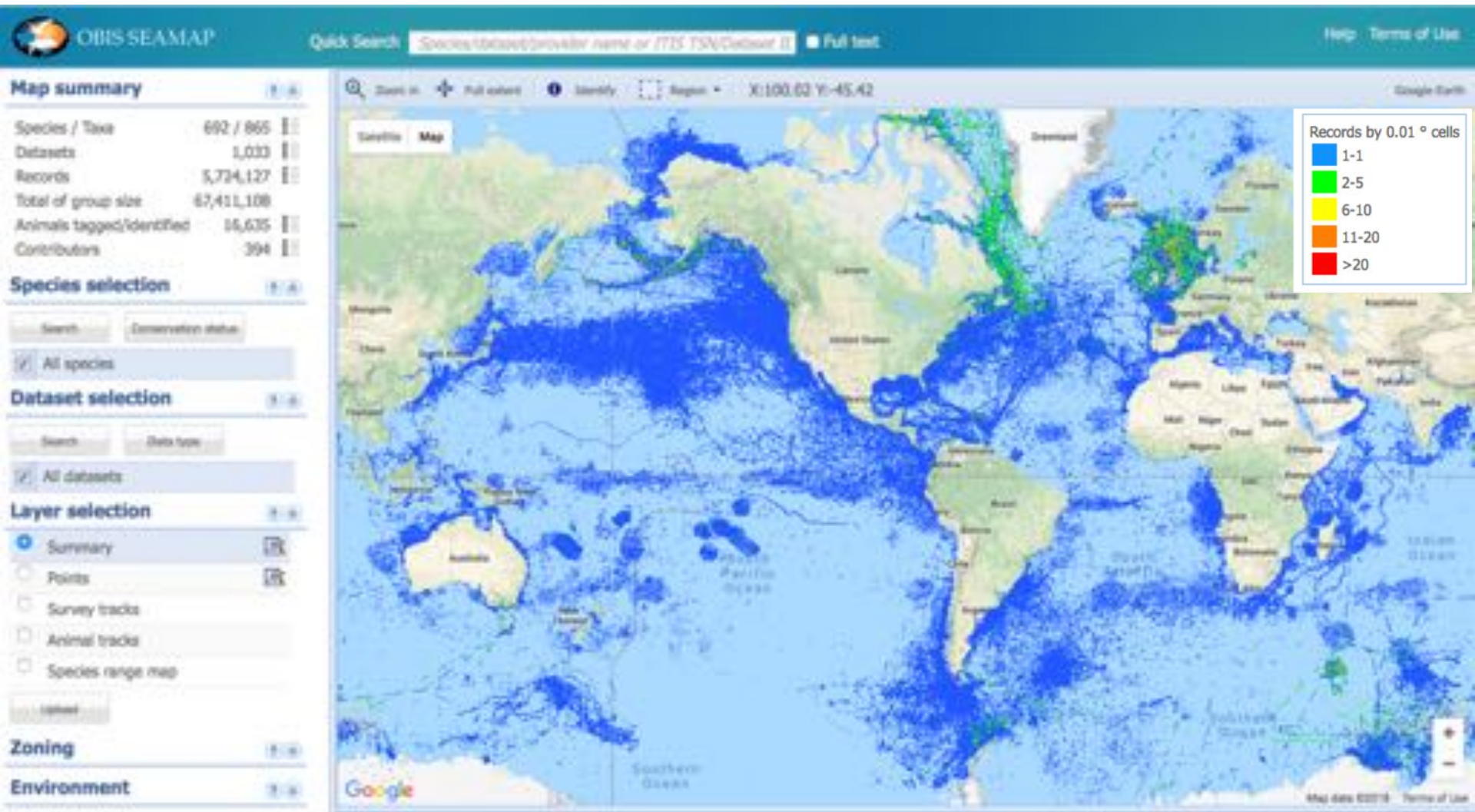


# OBIS-SEAMAP: <http://seamap.env.duke.edu>



Halpin et al. (2009) *Oceanography* 22:104-115.

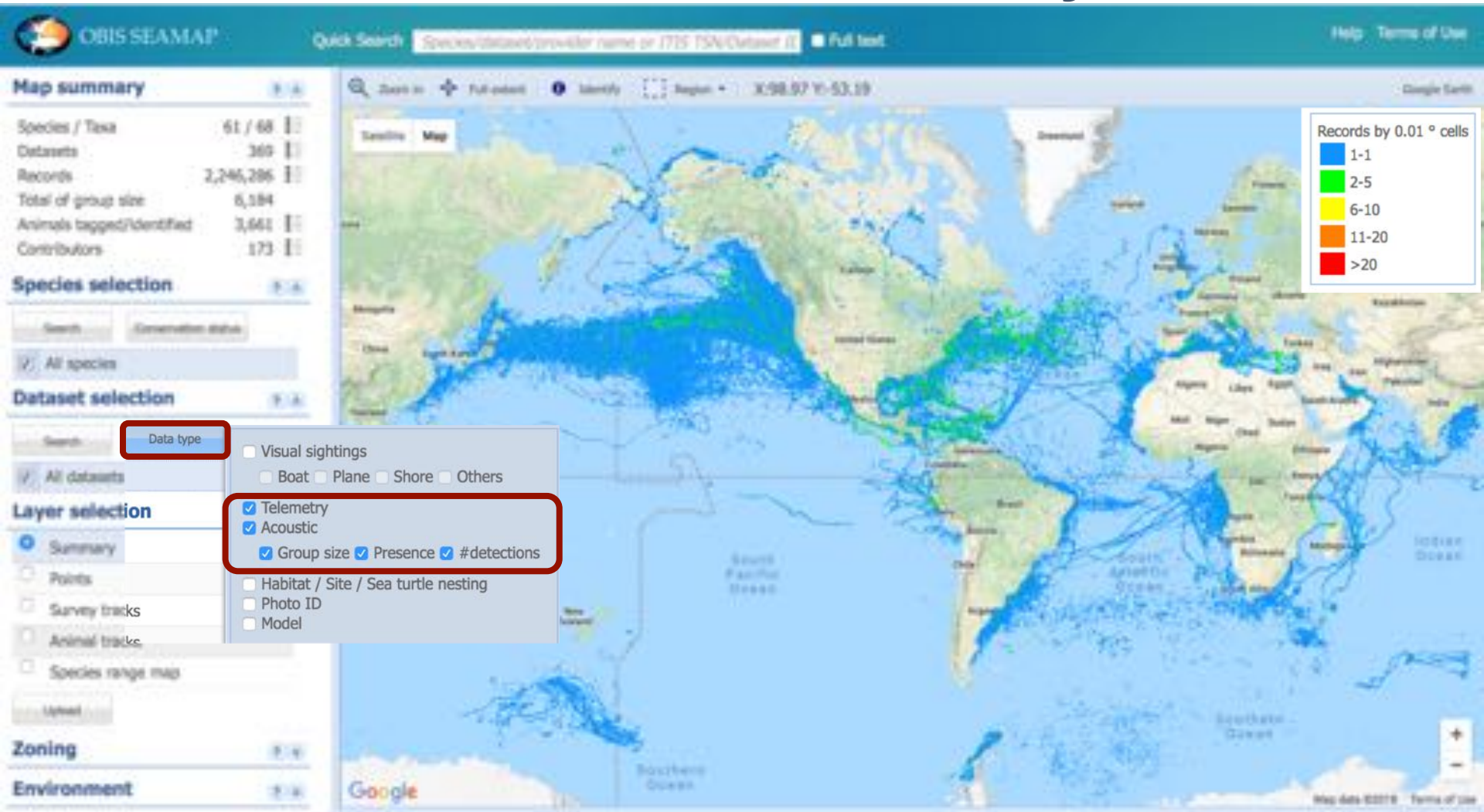
# OBIS-SEAMAP: All Data Platforms



<http://seamap.env.duke.edu/search>

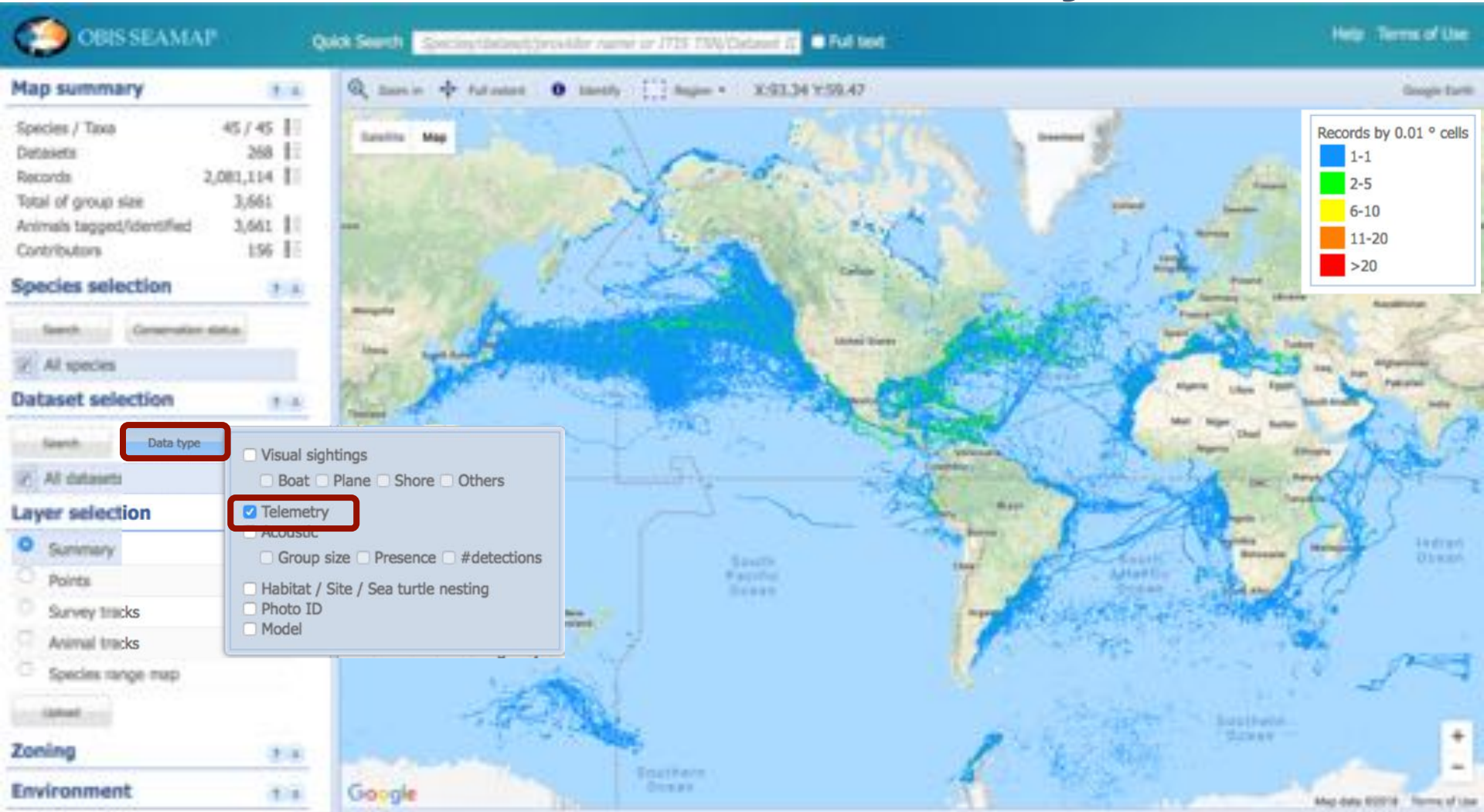


# OBIS-SEAMAP: All Telemetry Data



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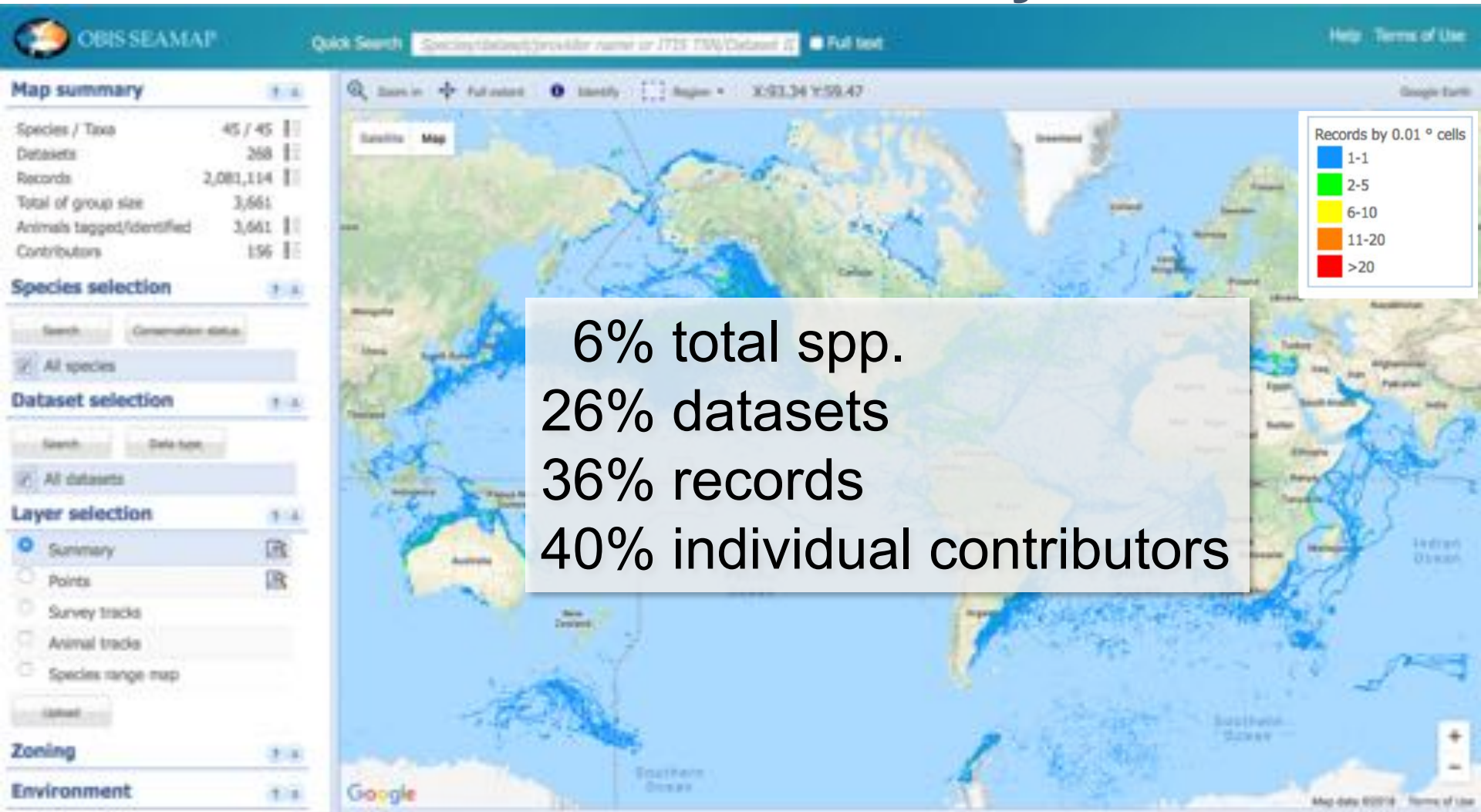
# OBIS-SEAMAP: All “Telemetry” Data



<http://seamap.env.duke.edu/search>

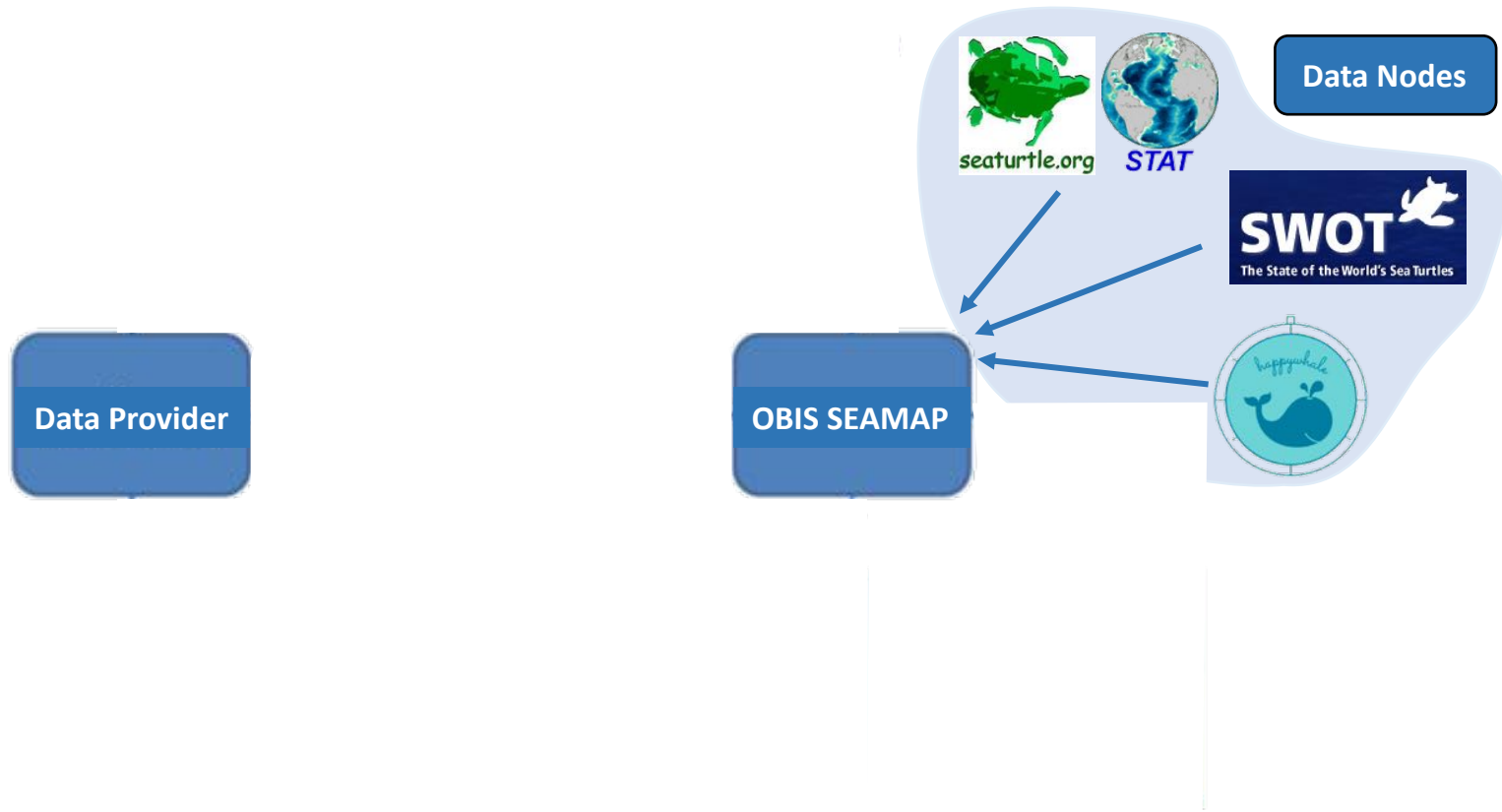


# OBIS-SEAMAP: “Telemetry” Data



<http://seamap.env.duke.edu/search>

# OBIS-SEAMAP: Data Contributions



[http://seamap.env.duke.edu/content/content/provider\\_faq](http://seamap.env.duke.edu/content/content/provider_faq)



# Satellite Tracking and Analysis Tool (STAT):

<http://www.seaturtle.org/stat>



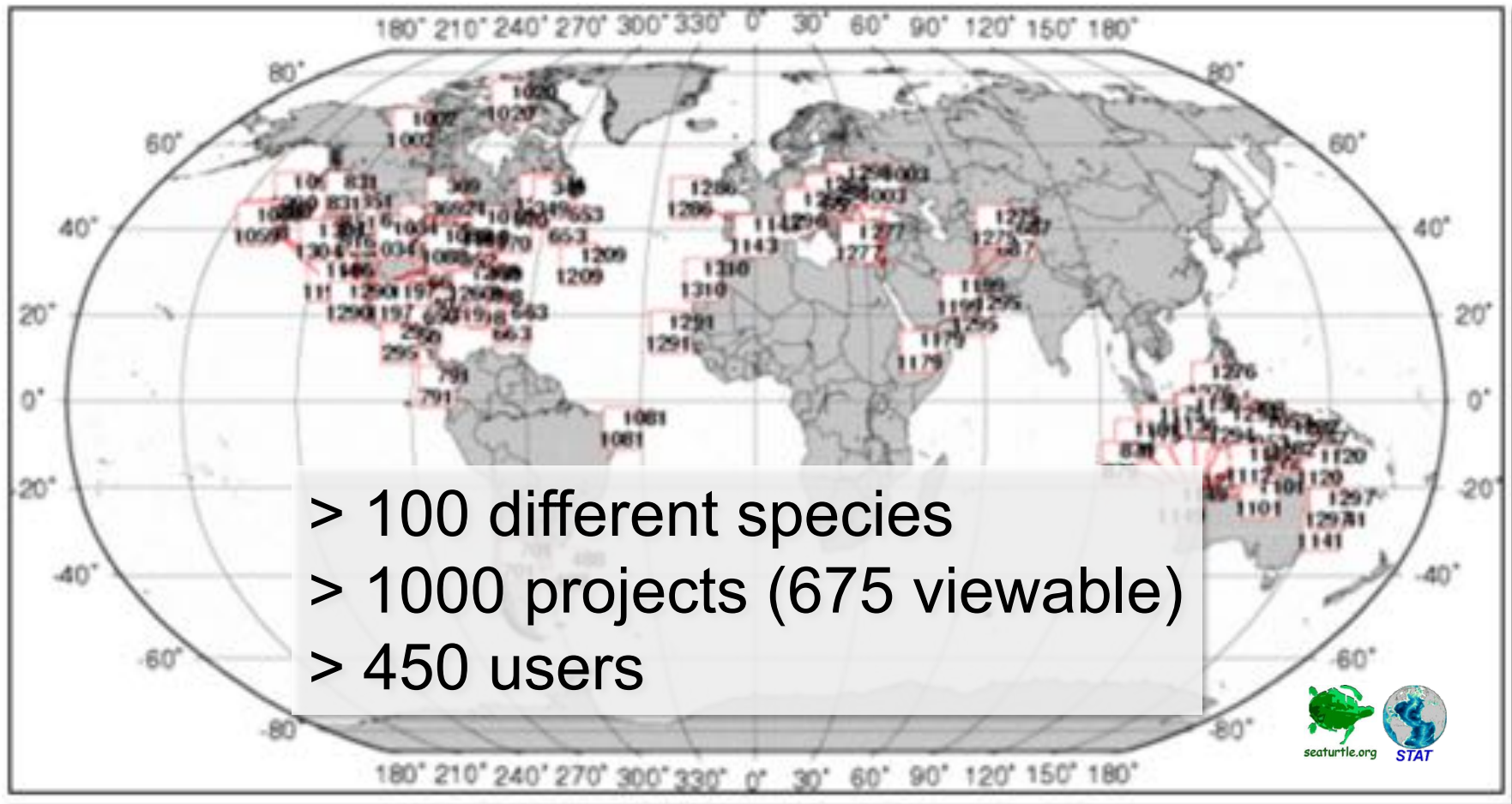
(a) Tracking data



Photos: © Aub Strydom 2016

Coyne & Godley (2007) MEPS 301:1-7.

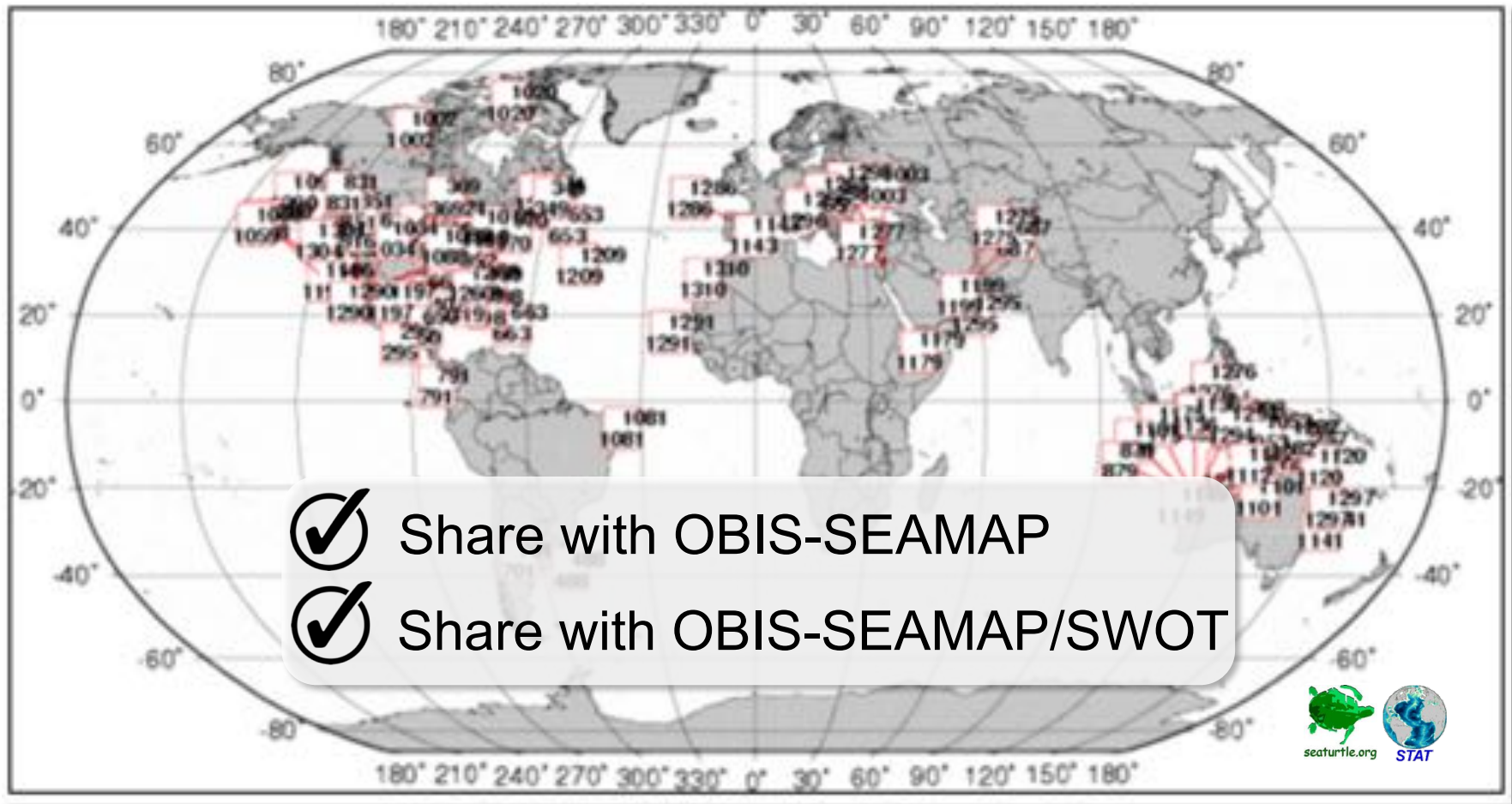
# Satellite Tracking and Analysis Tool (STAT) Telemetry Data Contributions



<http://www.seaturtle.org/tracking/projects.shtml>

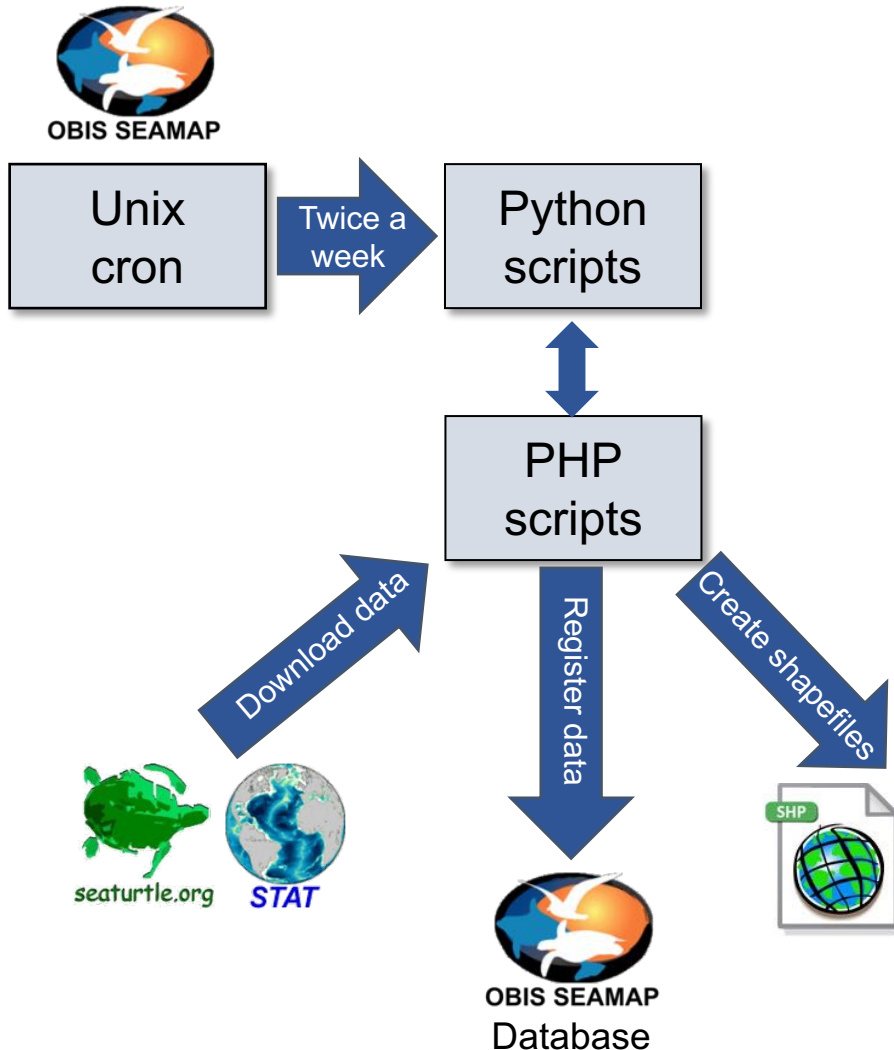


# Satellite Tracking and Analysis Tool (STAT) Telemetry Data Contributions



<http://www.seaturtle.org/tracking/projects.shtml>

# STAT Integration Framework for OBIS-SEAMAP



**OBIS SEAMAP**

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## Satellite Telemetry Datasets through Satellite Tracking and Analysis Tool (STAT)

Satellite Tracking and Analysis Tool (STAT), a program run by seaturtle.org, makes their telemetry datasets available via OBIS-SEAMAP upon the individual provider's request. This data exchange allows users to apply geospatial functions in OBIS-SEAMAP to STAT's data listed below. Datasets from STAT are updated twice a week.

Facilitator: Michael Coyne, seaturtle.org

### Summary

#datasets	#species	#records
Marine mammals	7	145,156
Rays and sharks	4	13,902
Seabirds	4	32,509
Sea turtles	8	953,516
Others	5	44,456
<b>Total</b>	<b>28</b>	<b>1,189,539</b>

Time span 1996-08-17 - 2018-04-01

A gridded summary of the datasets at 1 degree. A click on the summary map takes you to the interactive map with all the datasets listed below pre-loaded.

### Dataset List

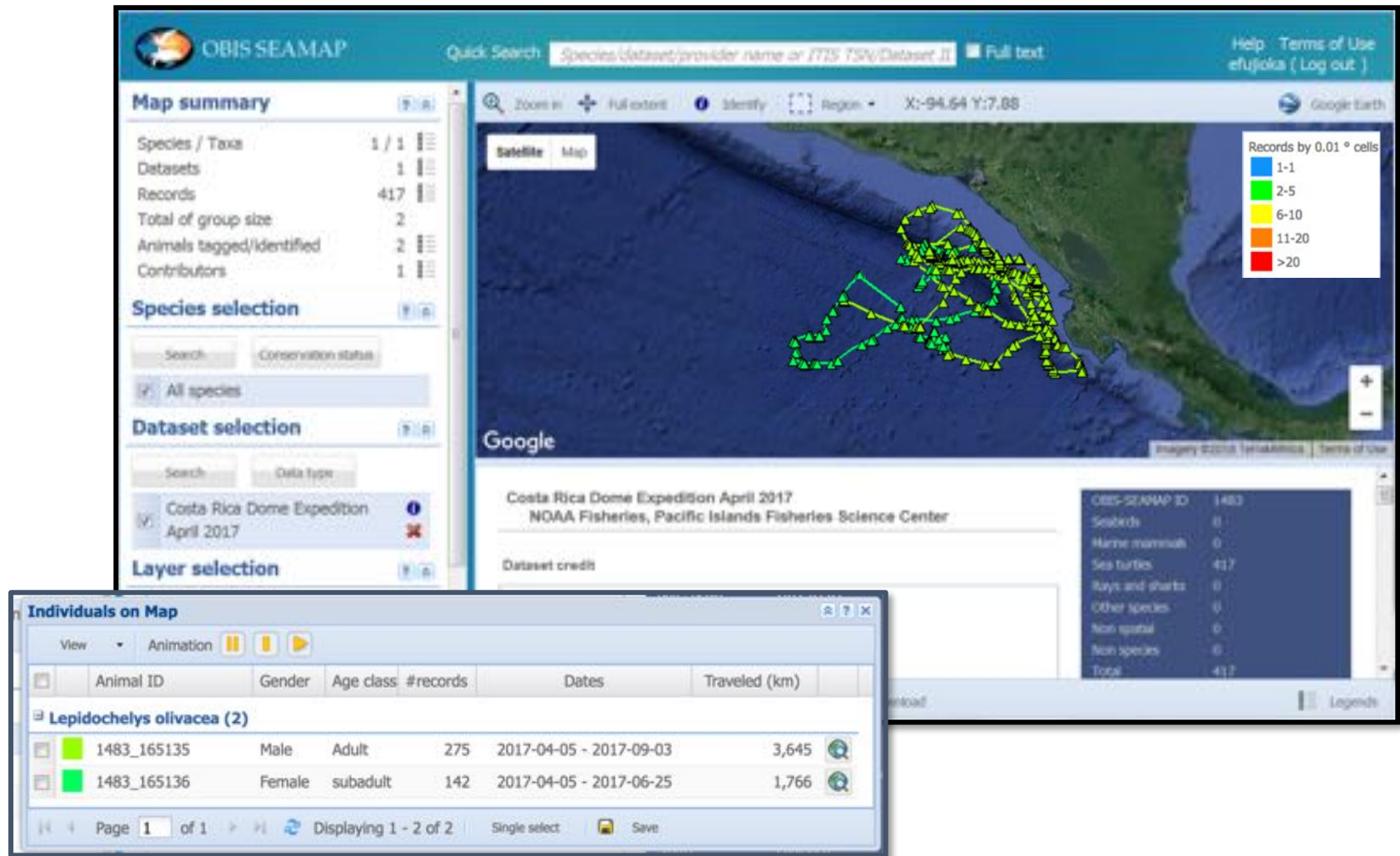
The list is sorted by the date registered (newest first). Please click on an individual dataset title to view it with an interactive map.

- Juvenile loggerheads: Canary Islands reintroduction program**  
 #records: 127; #individuals: 5; Tracks: Yes  
 Survey dates: 2018-03-15 - 2018-03-30; added: 2018-03-20  
 Provider: ADS Biodiversidad  
 Contact(s): Nuria Cruz, Proyecto Aegina  
 Visit STAT's project page for additional information.
- Northern elephant seals post-breeding 2018**  
 #records: 2,121; #individuals: 8; Tracks: Yes  
 Survey dates: 2018-02-08 - 2018-03-30; added: 2018-03-06  
 Provider: Dan Costa  
 Contact(s): Daniel Costa, Costa Lab Mammals  
 Visit STAT's project page for additional information.
- CARESAT**  
 #records: 618; #individuals: 5; Tracks: Yes  
 Survey dates: 2014-10-11 - 2018-02-07; added: 2018-01-16

<http://seamap.env.duke.edu/partner/stat>

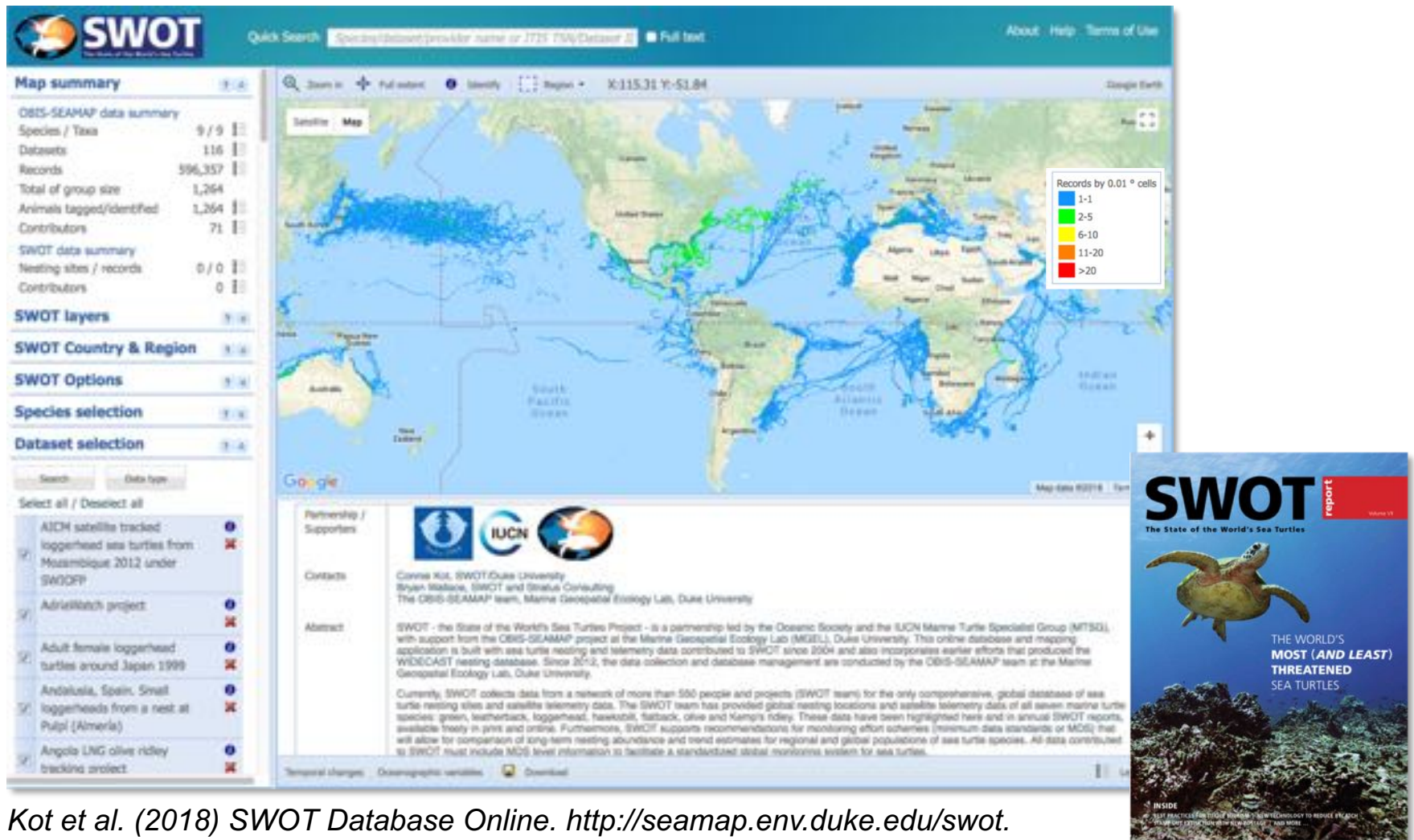


# STAT Dataset on OBIS-SEAMAP



Swimmer (2017) OBIS-SEAMAP and seaturtle.org/STAT. <http://seamap.env.duke.edu/dataset/1483>.

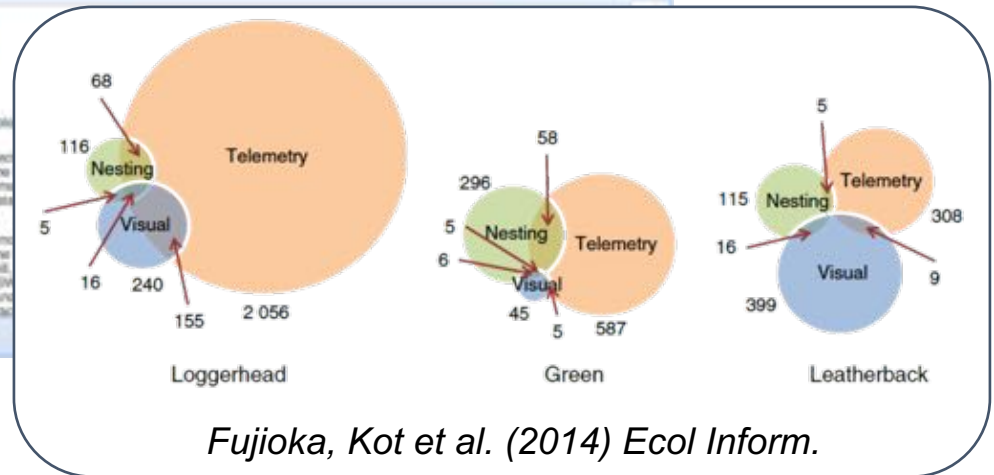
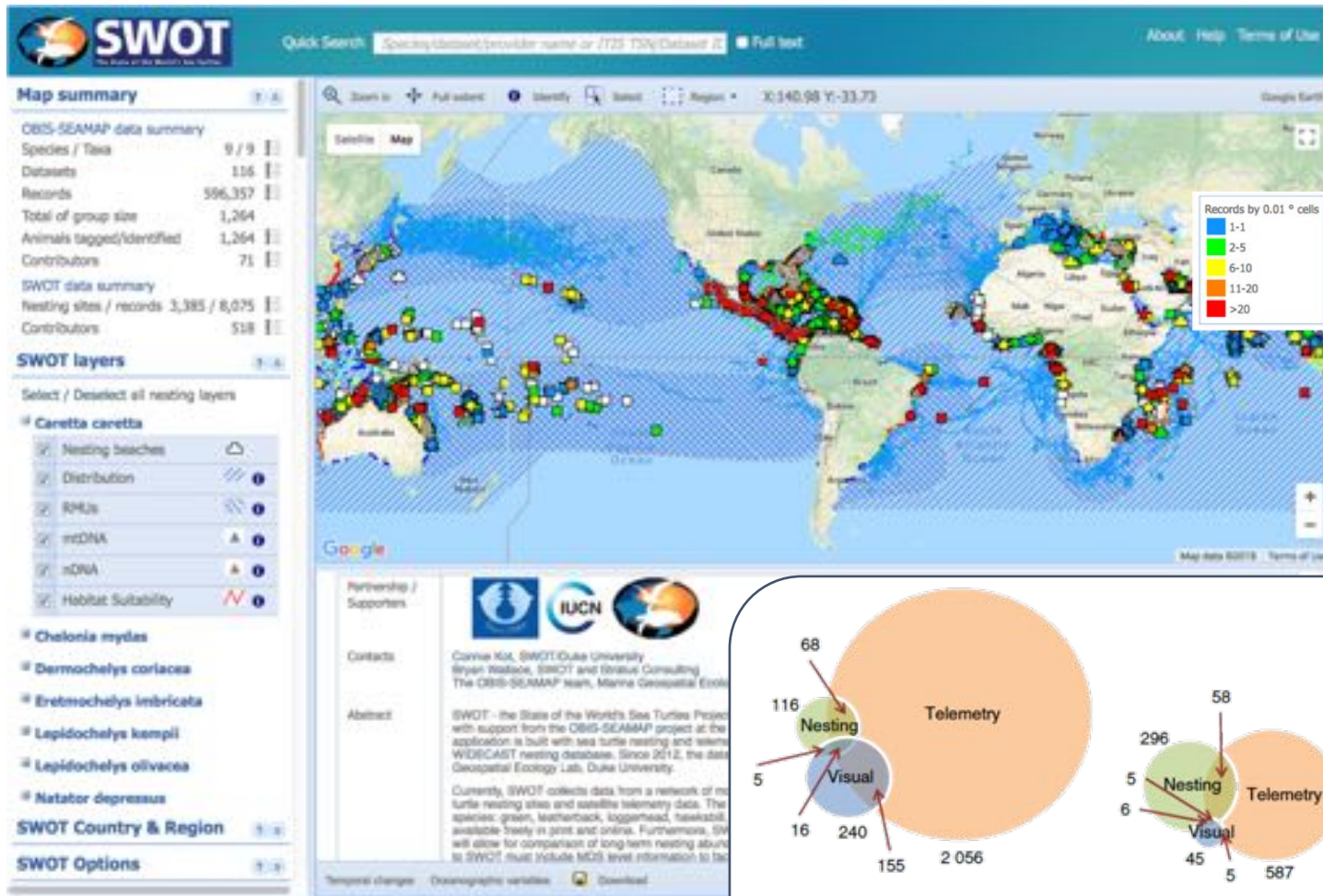
# STAT Dataset on OBIS-SEAMAP/SWOT



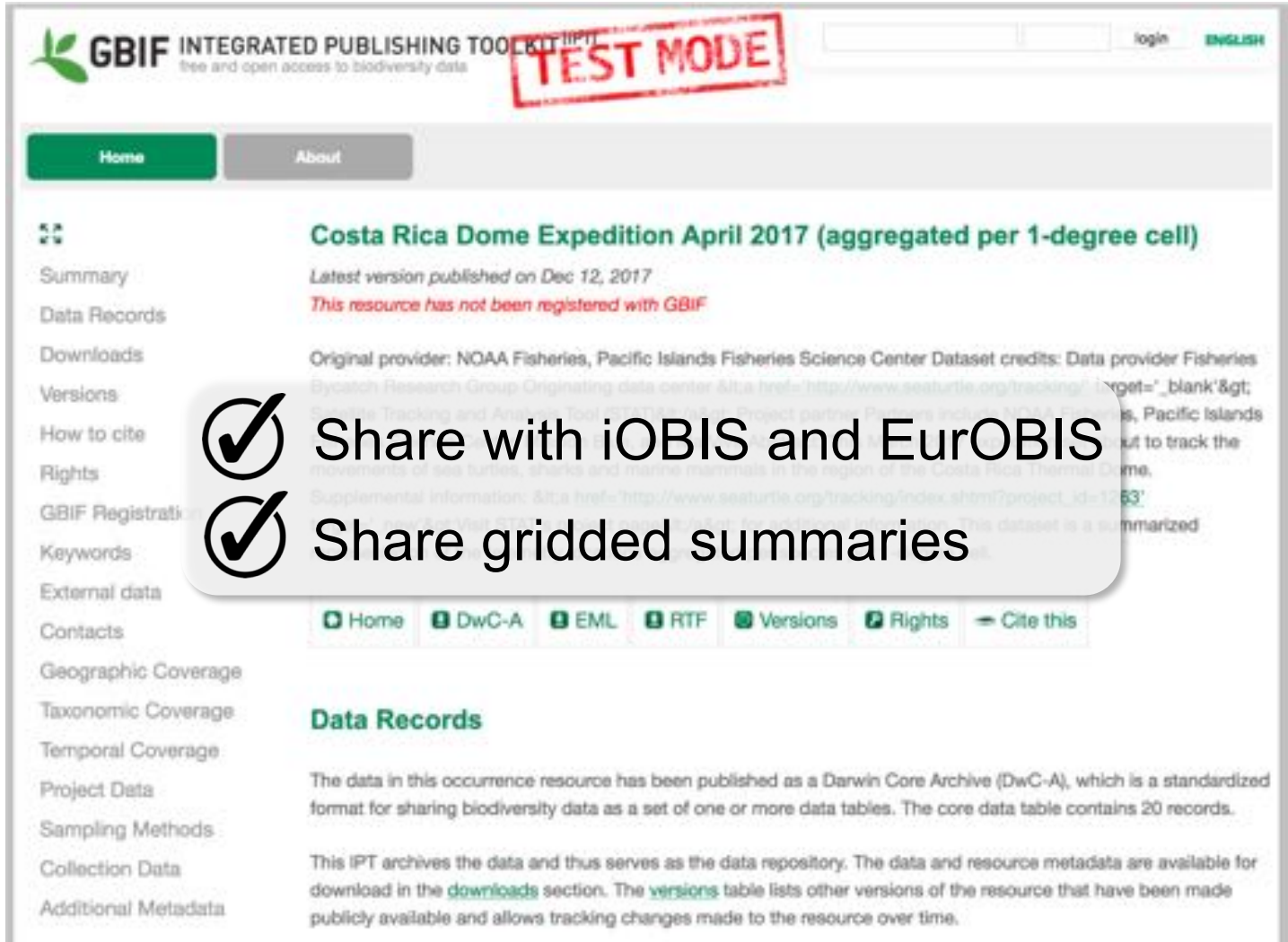
Kot et al. (2018) SWOT Database Online. <http://seamap.env.duke.edu/swot>.



# STAT Dataset on OBIS-SEAMAP/SWOT



# STAT Dataset on OBIS-SEAMAP to iOBIS



GBIF INTEGRATED PUBLISHING TOOL (IPT) **TEST MODE** login ENGLISH

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## Costa Rica Dome Expedition April 2017 (aggregated per 1-degree cell)

Latest version published on Dec 12, 2017  
*This resource has not been registered with GBIF*

Original provider: NOAA Fisheries, Pacific Islands Fisheries Science Center Dataset credits: Data provider Fisheries Bycatch Research Group Originating data center <a href="http://www.seaturtle.org/tracking/index.html?project\_id=1483">http://www.seaturtle.org/tracking/index.html?project\_id=1483</a> Supplemental information: <a href="http://www.seaturtle.org/tracking/index.html?project\_id=1483">http://www.seaturtle.org/tracking/index.html?project\_id=1483</a>

Summary  
Data Records  
Downloads  
Versions  
How to cite  
Rights  
GBIF Registration  
Keywords  
External data  
Contacts  
Geographic Coverage  
Taxonomic Coverage  
Temporal Coverage  
Project Data  
Sampling Methods  
Collection Data  
Additional Metadata

✓ Share with iOBIS and EurOBIS  
✓ Share gridded summaries

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### Data Records

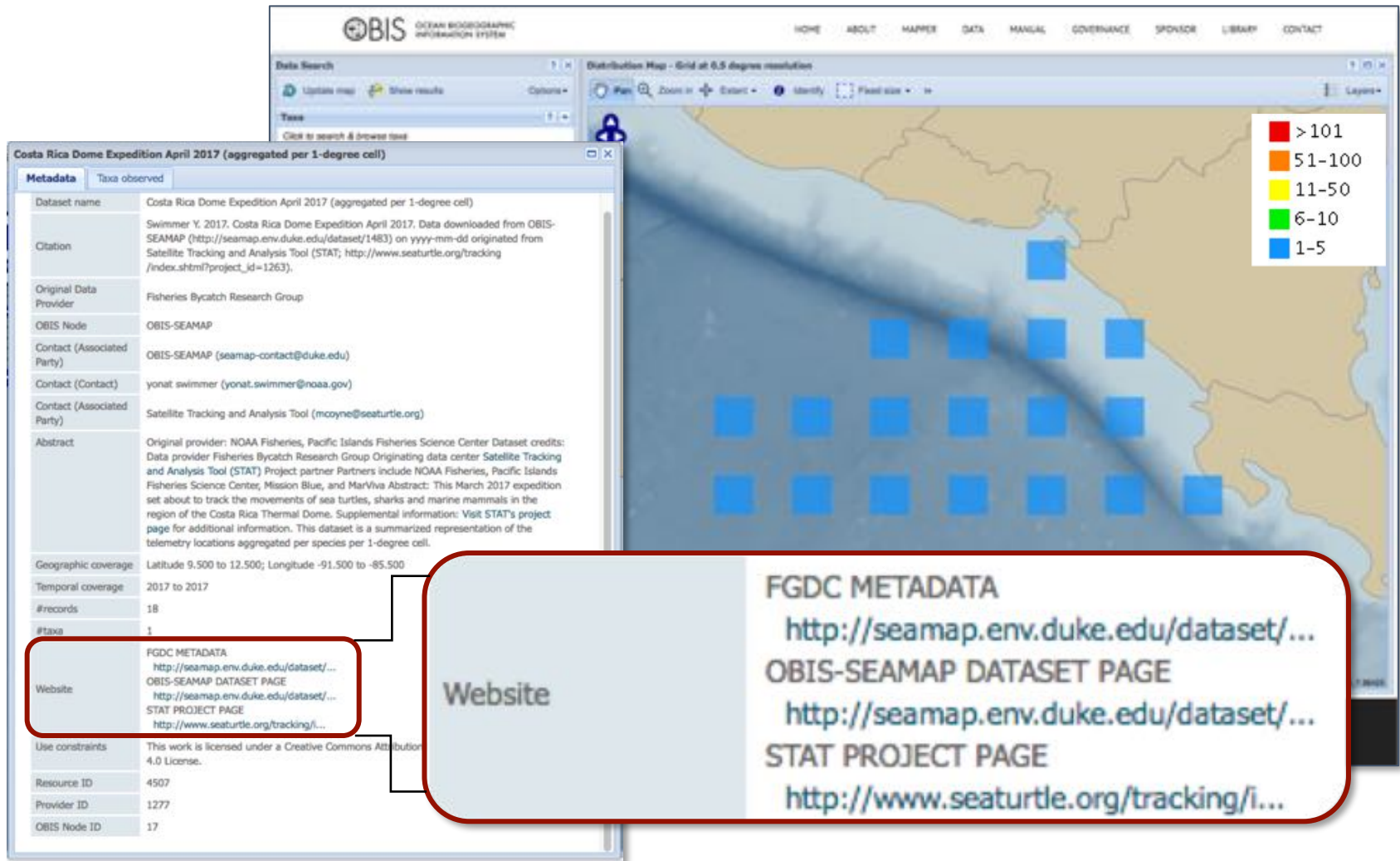
The data in this occurrence resource has been published as a Darwin Core Archive (DwC-A), which is a standardized format for sharing biodiversity data as a set of one or more data tables. The core data table contains 20 records.

This IPT archives the data and thus serves as the data repository. The data and resource metadata are available for download in the [downloads](#) section. The [versions](#) table lists other versions of the resource that have been made publicly available and allows tracking changes made to the resource over time.

[http://ipt.env.duke.edu/resource?r=zd\\_1483\\_1deg](http://ipt.env.duke.edu/resource?r=zd_1483_1deg)





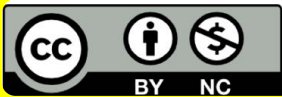

# STAT Dataset on OBIS-SEAMAP to iOBIS



<http://www.iobis.org/mapper/>

# OBIS-SEAMAP: Data Sharing Policy

Based on Attribution 4.0 International (CC BY 4.0)

	Permission	Attribution	Commercial use	Attributes Shared
	Nonreq	Nonreq	Allowed	All
	Nonreq	Required	Allowed	Minimum*
	Nonreq	Required	Not allowed	Minimum*
	Required	Required	-	-

\*minimum is default; can choose to share all attributes

<https://creativecommons.org/licenses/by/4.0>







# Questions?

## **Ocean Biogeographic Information System Spatial Ecological Analysis of Megavertebrate Populations**

<http://seamap.env.duke.edu>

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