

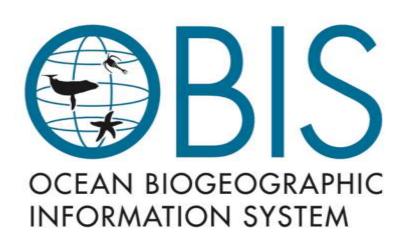


# Image: State of the s



# OBIS

## a Global Ocean Biodiversity Information System hosted in Flanders



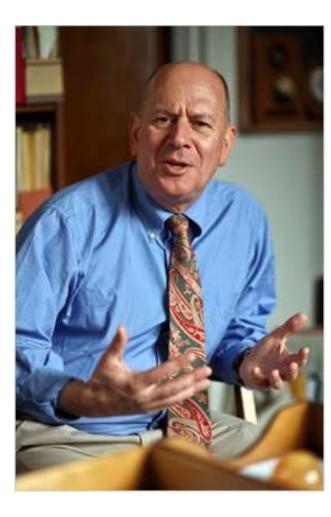
Mr Ward Appeltans IOC-UNESCO





United Nations Educational, Scientific and Cultural Organization Intergovernmental Oceanographic Commission

-





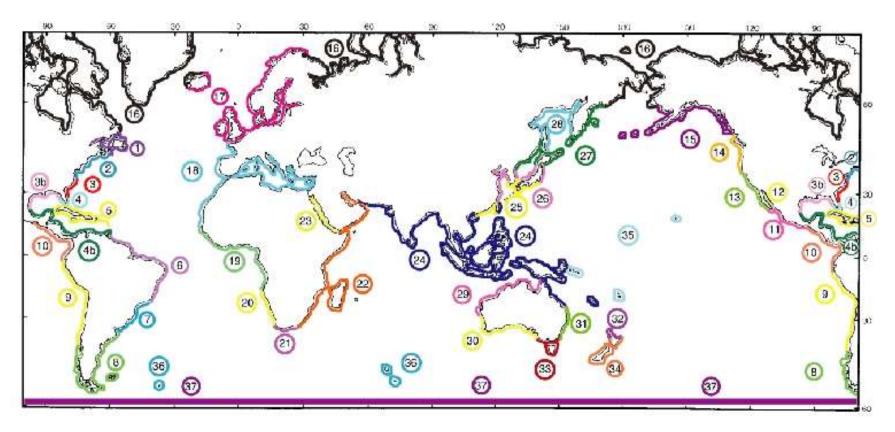
# 20 years ago



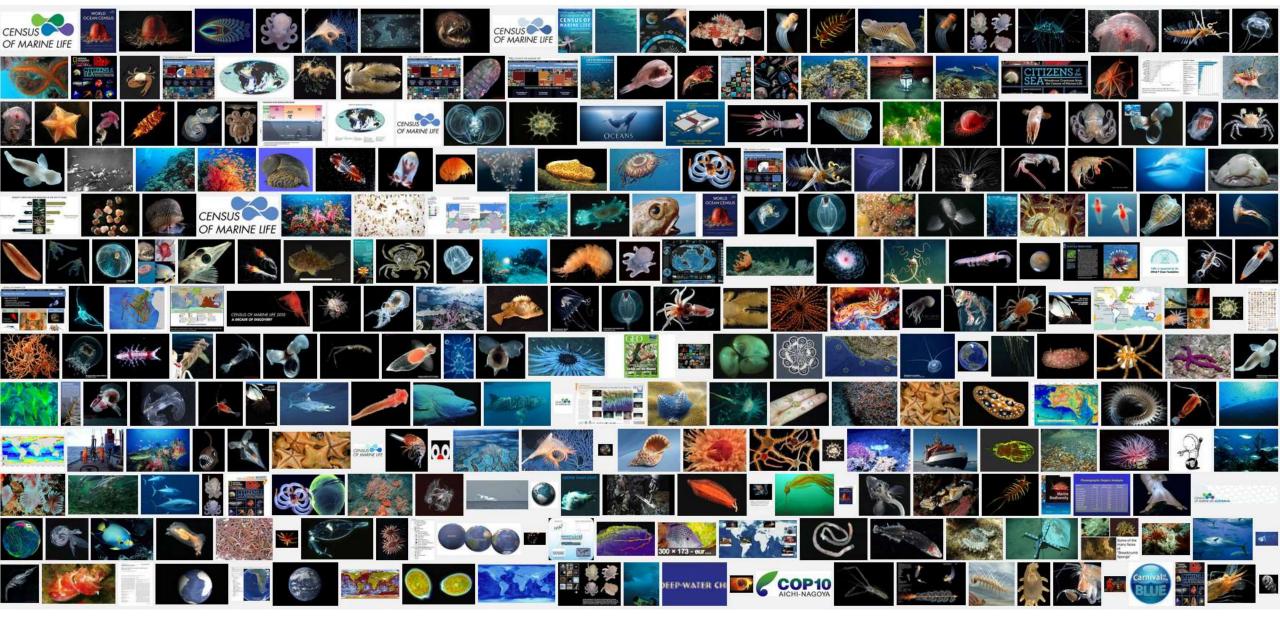


#### 2017

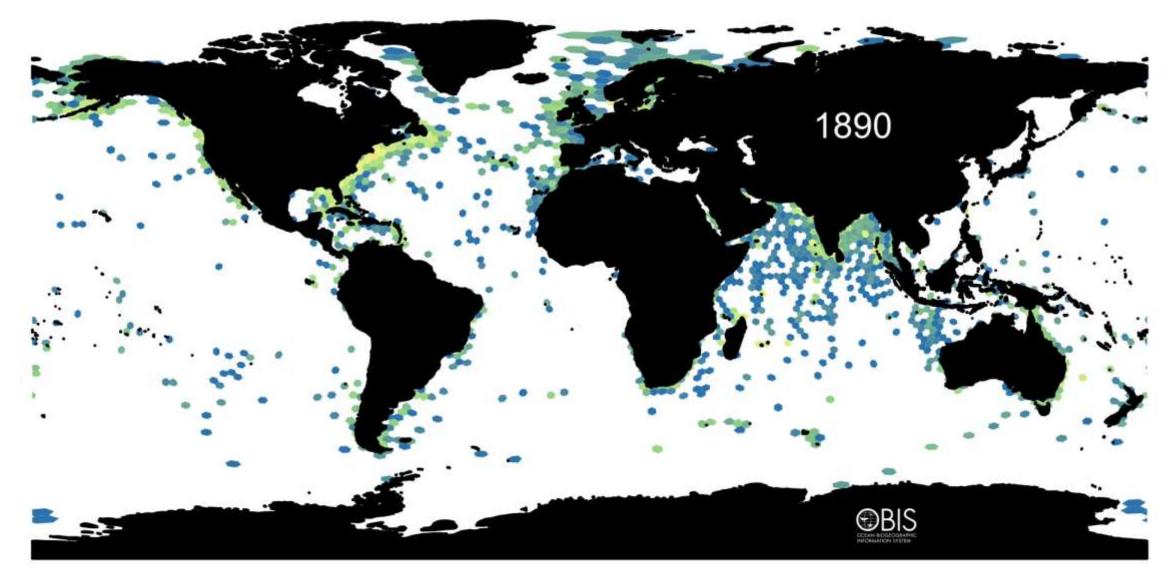
Coastal Marine Bioregions Map Produced by Les Watling and Sarah Gerken Modelled after Briggs (1995) and Springer (1982)



#### Census of Marine Life (2000-2010)



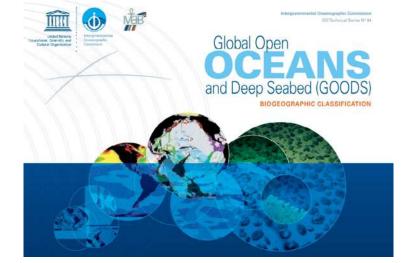
### A journey of 50,000,000 records in time and space

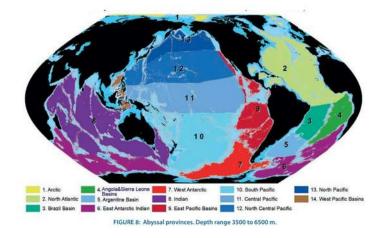


#### 1998









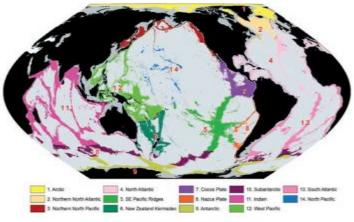


FIGURE 7: Lower bathyal provinces. Depth range 800 to 3000m.





A proposed biogeography of the deep ocean floor Les Watling<sup>a,\*</sup>, John Guinotte<sup>b</sup>, Malcolm R. Clark<sup>c</sup>, Craig R. Smith<sup>d</sup>

With the advent of global biogeographic databases, such as the Ocean Biogeographic Information System (OBIS, www.obis.org), detailed global biogeographic analyses, based on species distributions, should eventually become possible as species descriptions and distributional data are published.

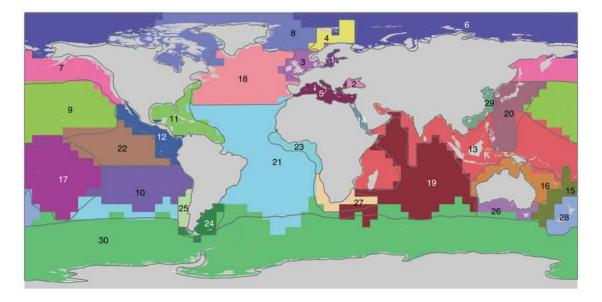


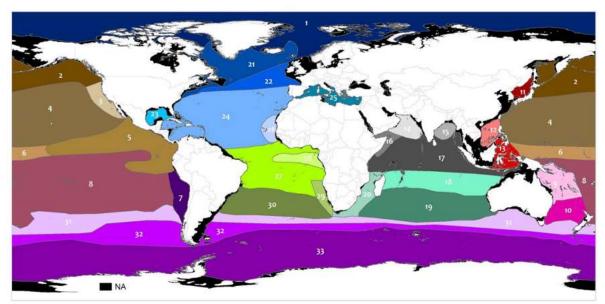












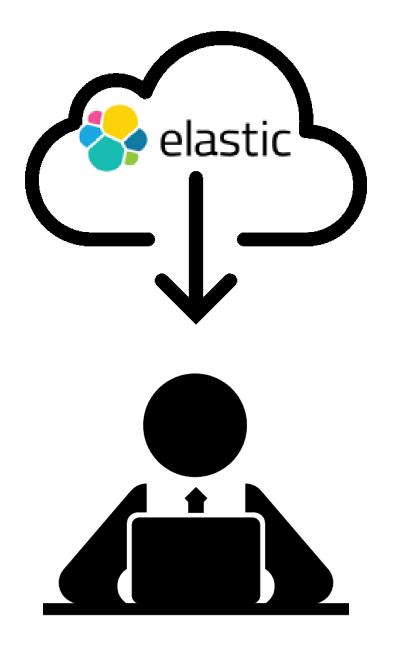
Marine biogeographic realms and species endemicityA global biogeographic classification of the mesopelagic zone

Open-access to research data supports equitable access and benefit sharing and enhances international collaboration

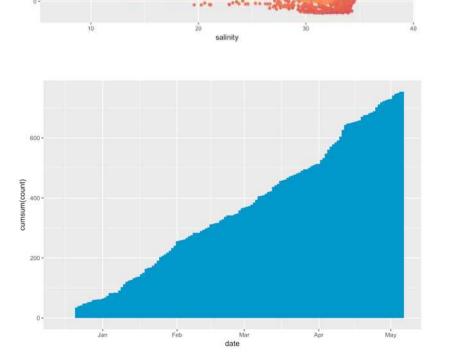
### Reaching out to the world



Country		Users 🗘 🗸
		<b>44,847</b> % of Total: 100.00% (44,847)
1.	United States	10,503
2.	United Kingdom	2,957
3.	E [•] Canada	1,986
4.	Brazil	1,767
5.	E 🧮 Germany	1,621
6.	🔳 🚘 India	1,551
7.	📕 💽 Japan	1,538
8.	Spain	1,536
9.	Mexico	1,520
10.	France	1,358
11.	Australia	1,166
12.	Italy	952
13.	Belgium	950
14.	China	047
15.	Philippines	724

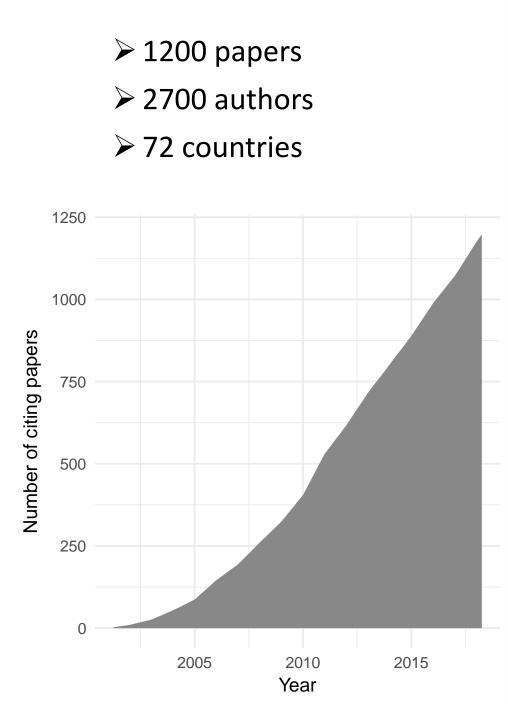


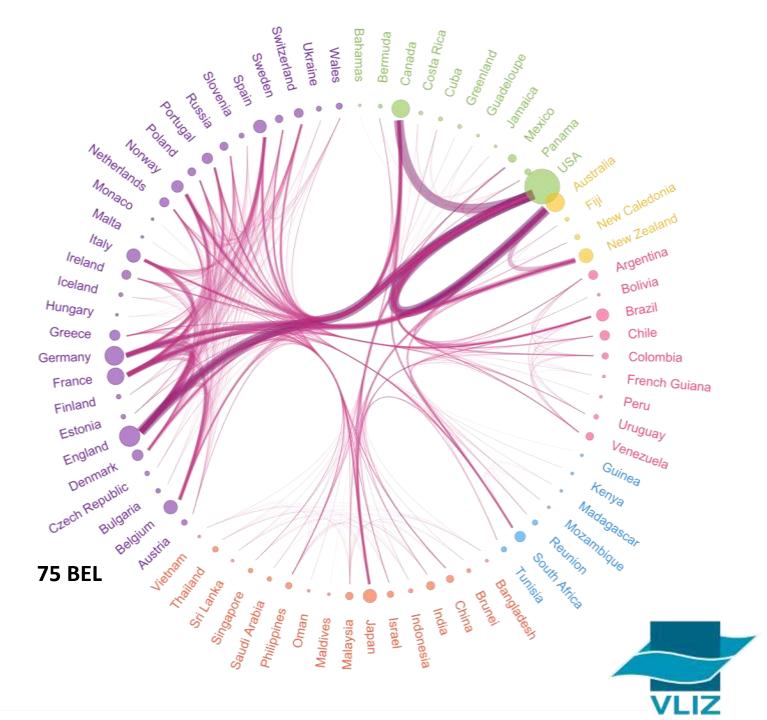
# **R ROBIS**

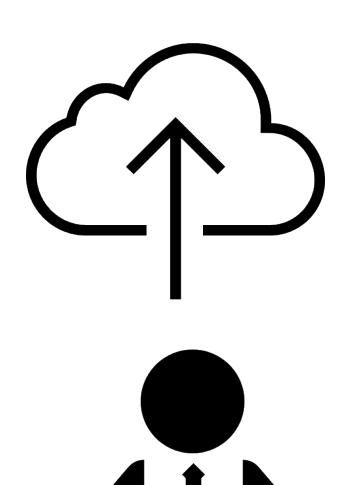


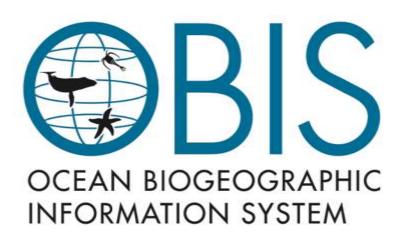
decimalLatitude

#### xylookup service



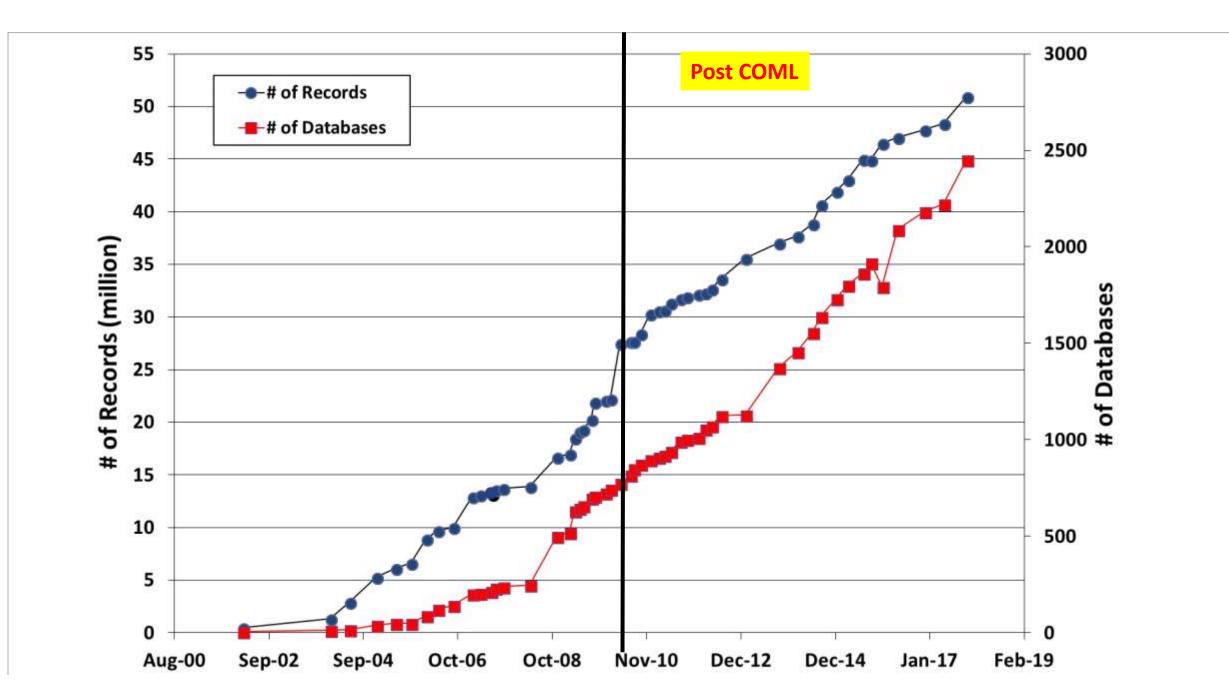




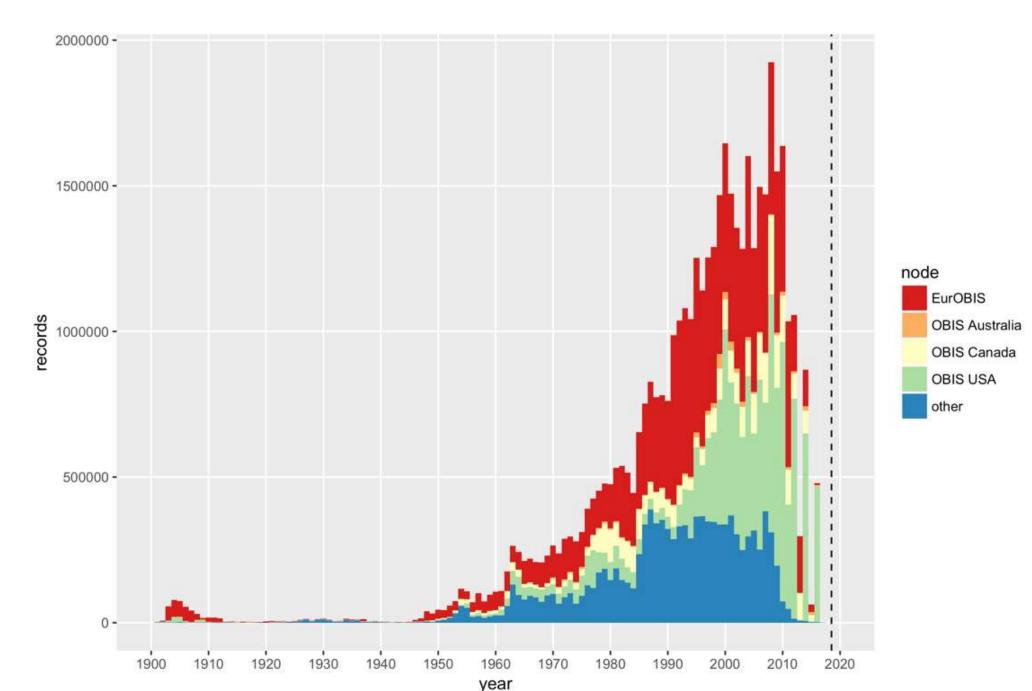


## VISION

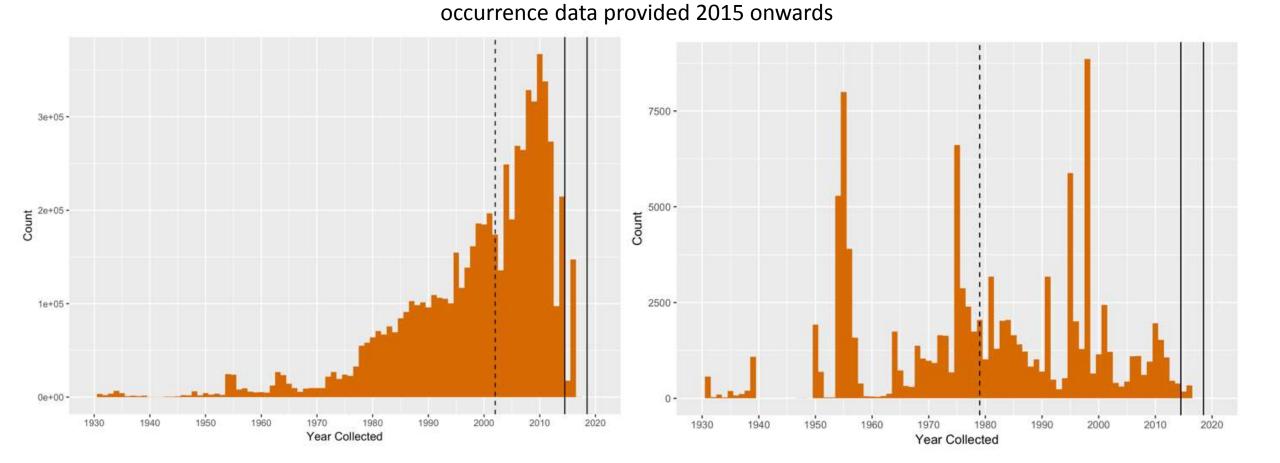
To be the most comprehensive gateway to the world's ocean biodiversity and biogeographic data and information required to address pressing coastal and world ocean concerns.



#### Data latency

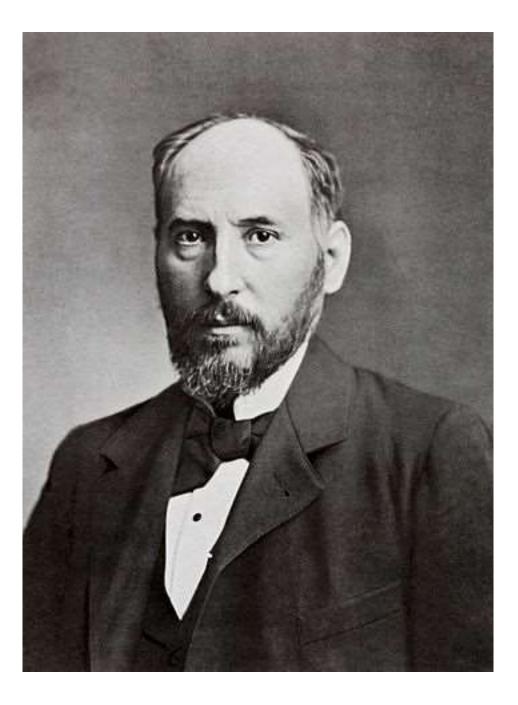


#### Still a lot of data archeology – Building the baseline



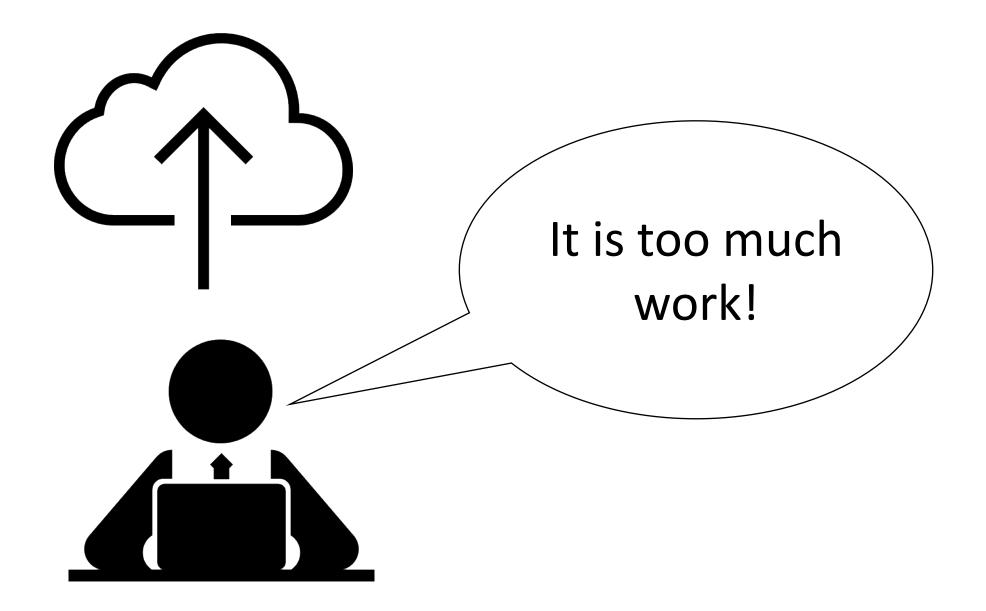
Global: median 2002

ABNJ only: median 1979



Advice to a Young **Investigator (1897)** "A scholar's positive contribution is measur ed by the sum of the original data that he contributes. Hypotheses come and go but data remain."

Santiago Ramón y





https://github.com/iobis/obistools

#### E README.md

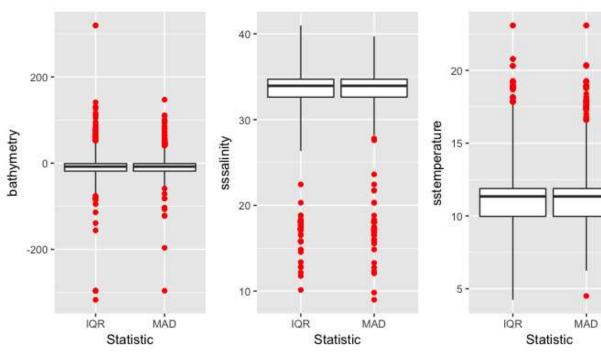
#### obistools: Tools for data enhancement and quality control.

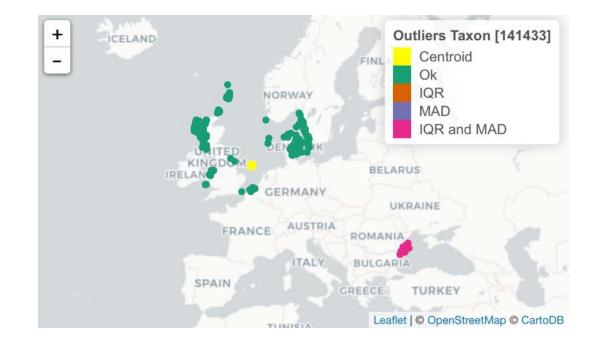
build passing coverage 89%

Installation Taxon matching Check required fields Plot points on a map Identify points on a map Check points on land Check depth Check outliers Check eventID and parentEventID Check eventID in an extension Flatten event records Flatten occurrence and event records Calculate centroid and radius for WKT geometries Map column names to Darwin Core terms Check eventDate Dataset structure Data quality report Lookup XY



Outliers Taxon [141433]







### In 2017: 151 people involved in 7 OBIS training courses



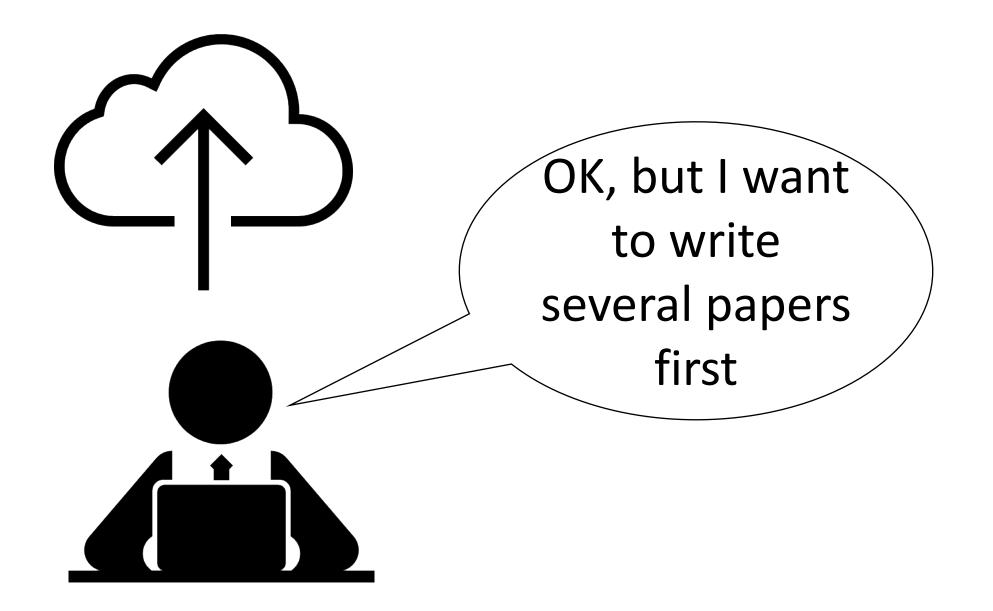










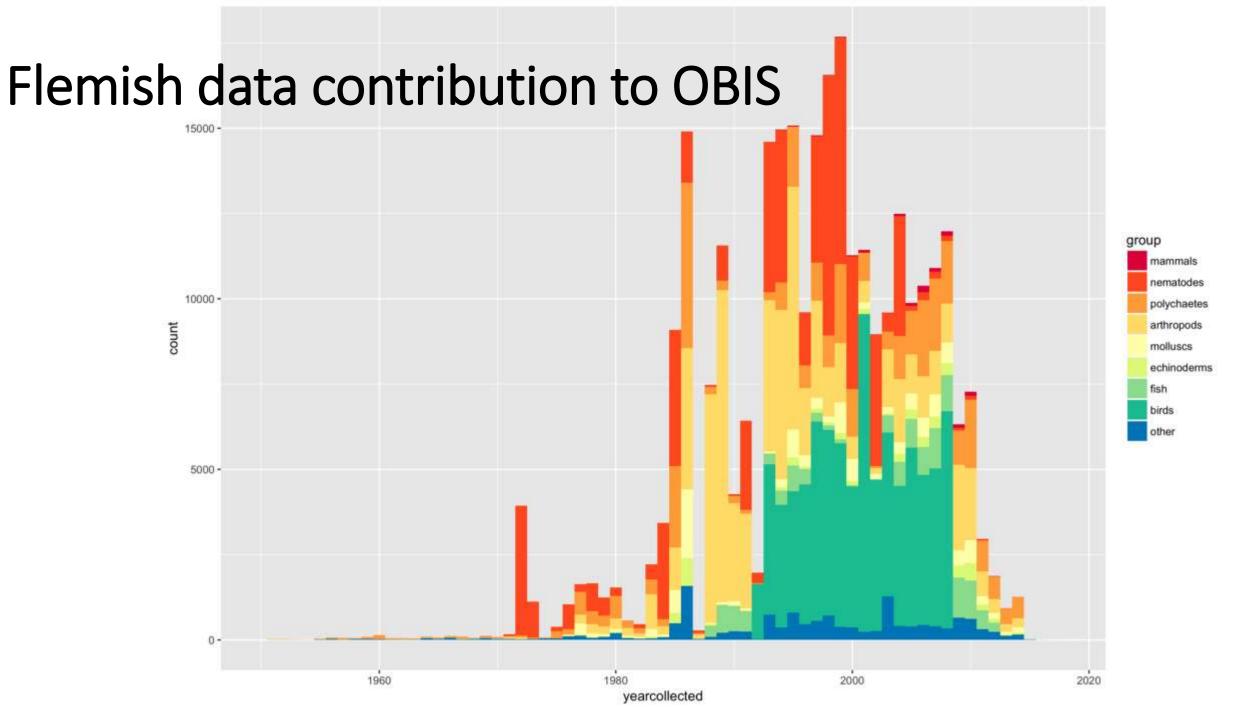


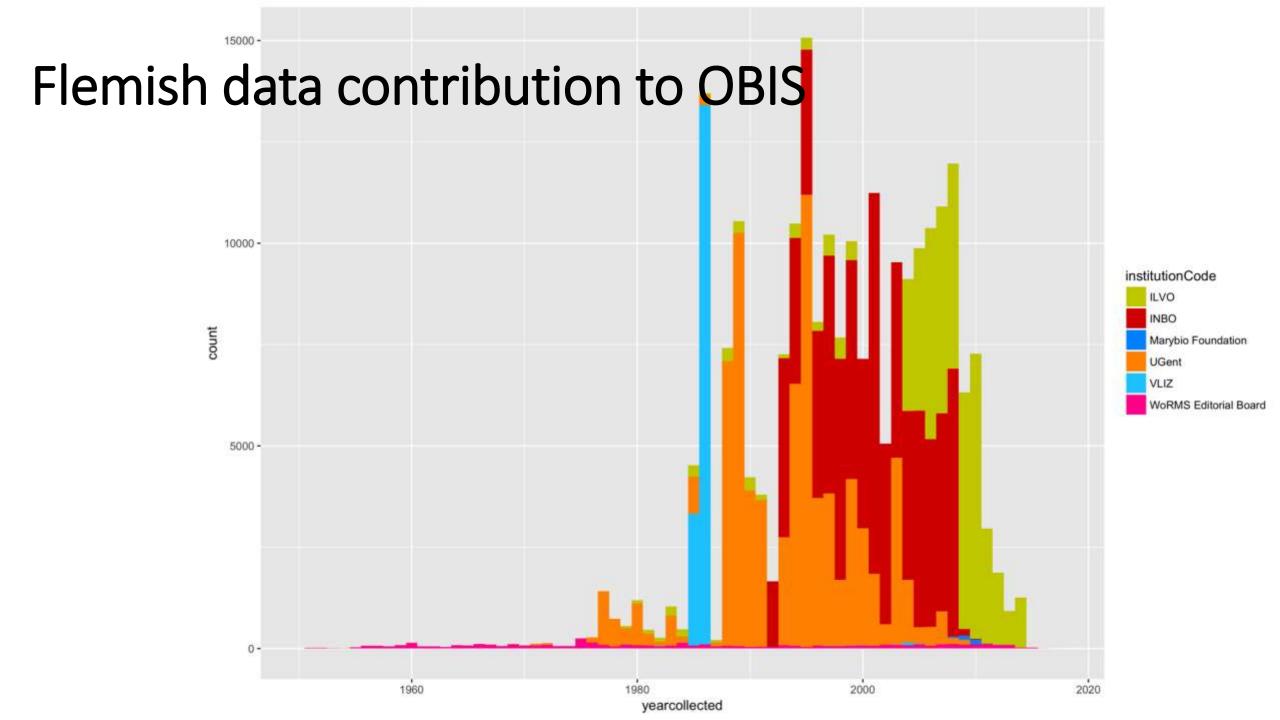


OBIS is so great, do you want to collaborate and

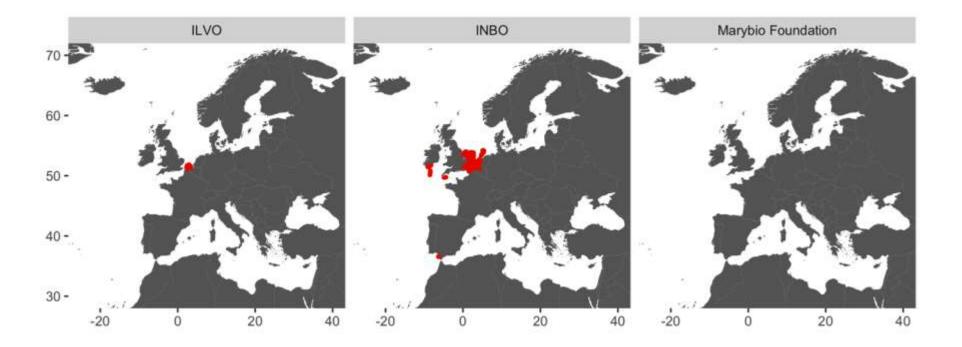
write a paper together?

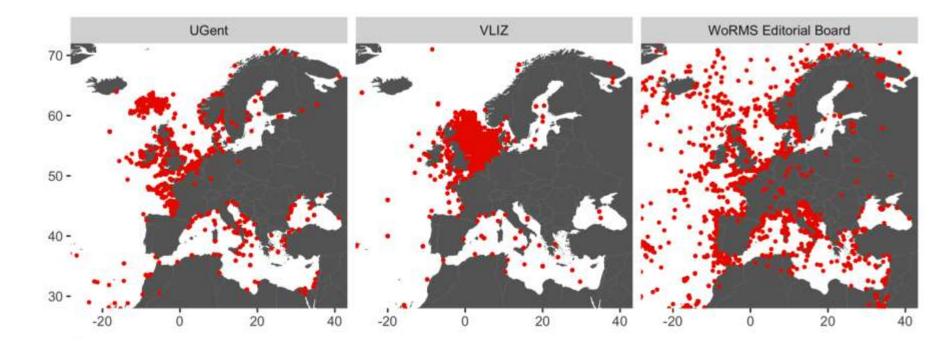






## Flemish data contribution to OBIS





#### International journal of science

### $\circ$

#### NEWS FEATURE · 09 MAY 2018

## How to save the high seas

As the United Nations prepares a historic treaty to protect the oceans, scientists highlight what's needed for success.



Once protected ocean areas have been agreed on, it's crucial to gather baseline data. A 2000–10 project called the Census of Marine Life provided much of what researchers know about life in the high seas, but the oceans have become warmer, more acidic and more heavily fished since then. This need for new data could stimulate a fresh period of discovery. "A new treaty could focus international attention on the critical need to explore, understand and monitor these common ocean areas," says Patrick Halpin, a marine ecologist at Duke University in Durham, North Carolina.

**UN Decade of Ocean Science for** Sustainable Development (2021-2030)





ental Sustainable nic Development Goals







# Time's up!





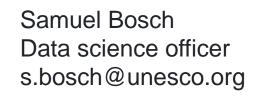


# FOR MORE INFORMATION CONTACT











Pieter Provoost Data manager p.provoost@unesco.org