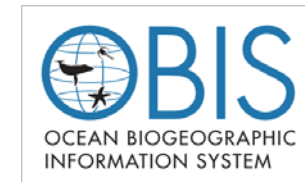


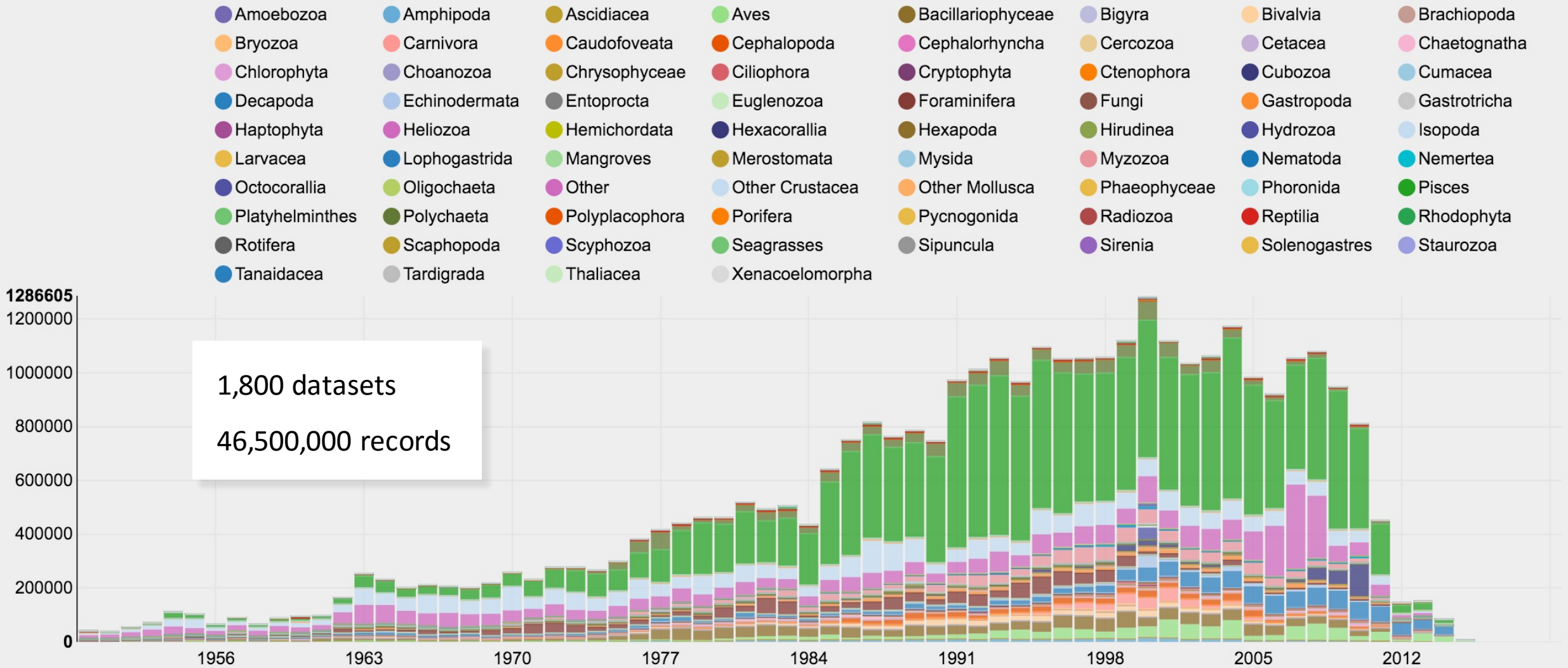
# Ocean Biogeographical Information System (OBIS)



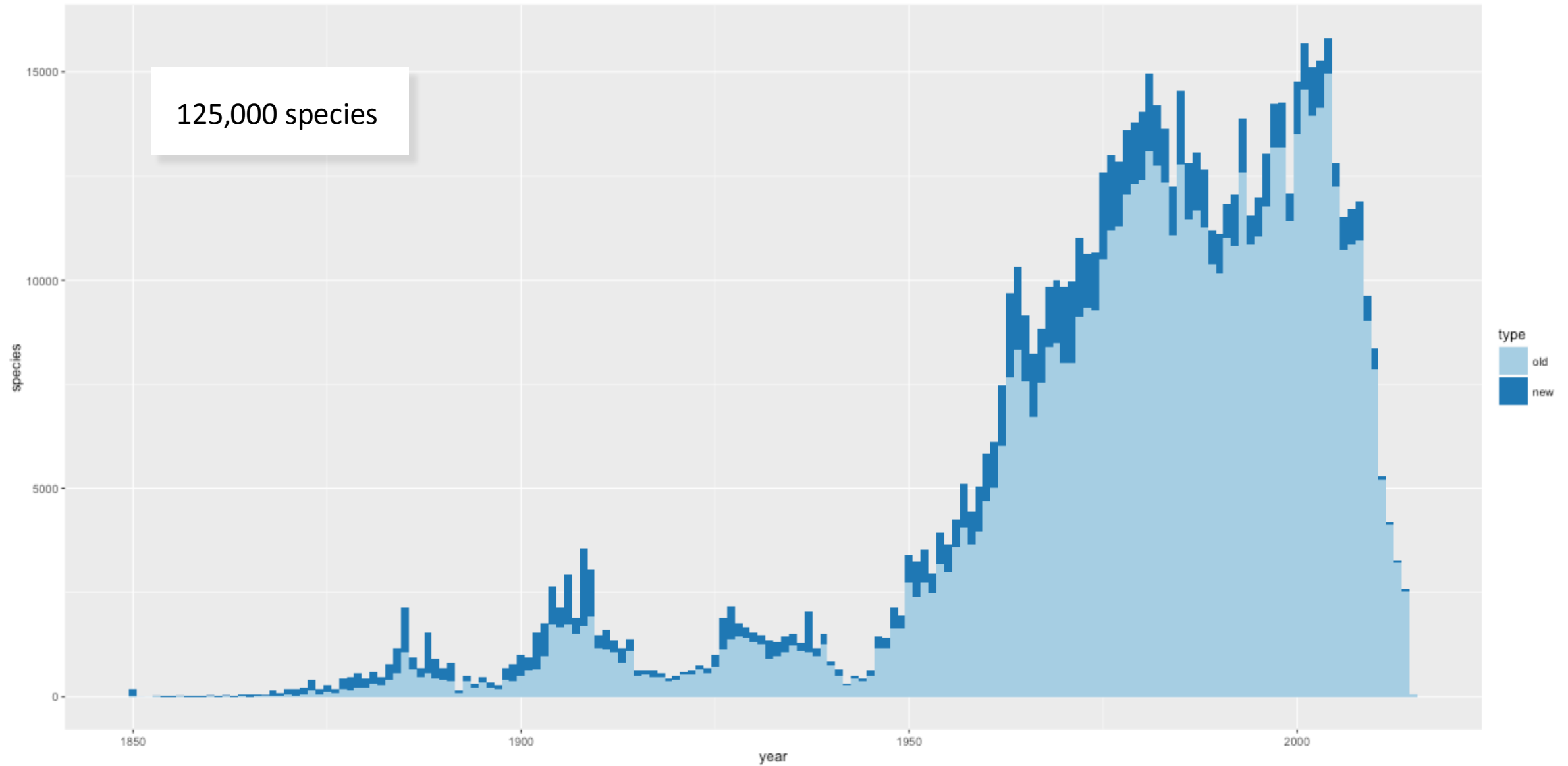
## Short history of OBIS

- 2000 - 2010: Created as data repository and information dissemination system for the Census of Marine Life
- 2009: Adopted by the Intergovernmental Oceanographic Commission of UNESCO, under the IODE programme
- Secretariat moved from Rutgers University to Ostend, Belgium

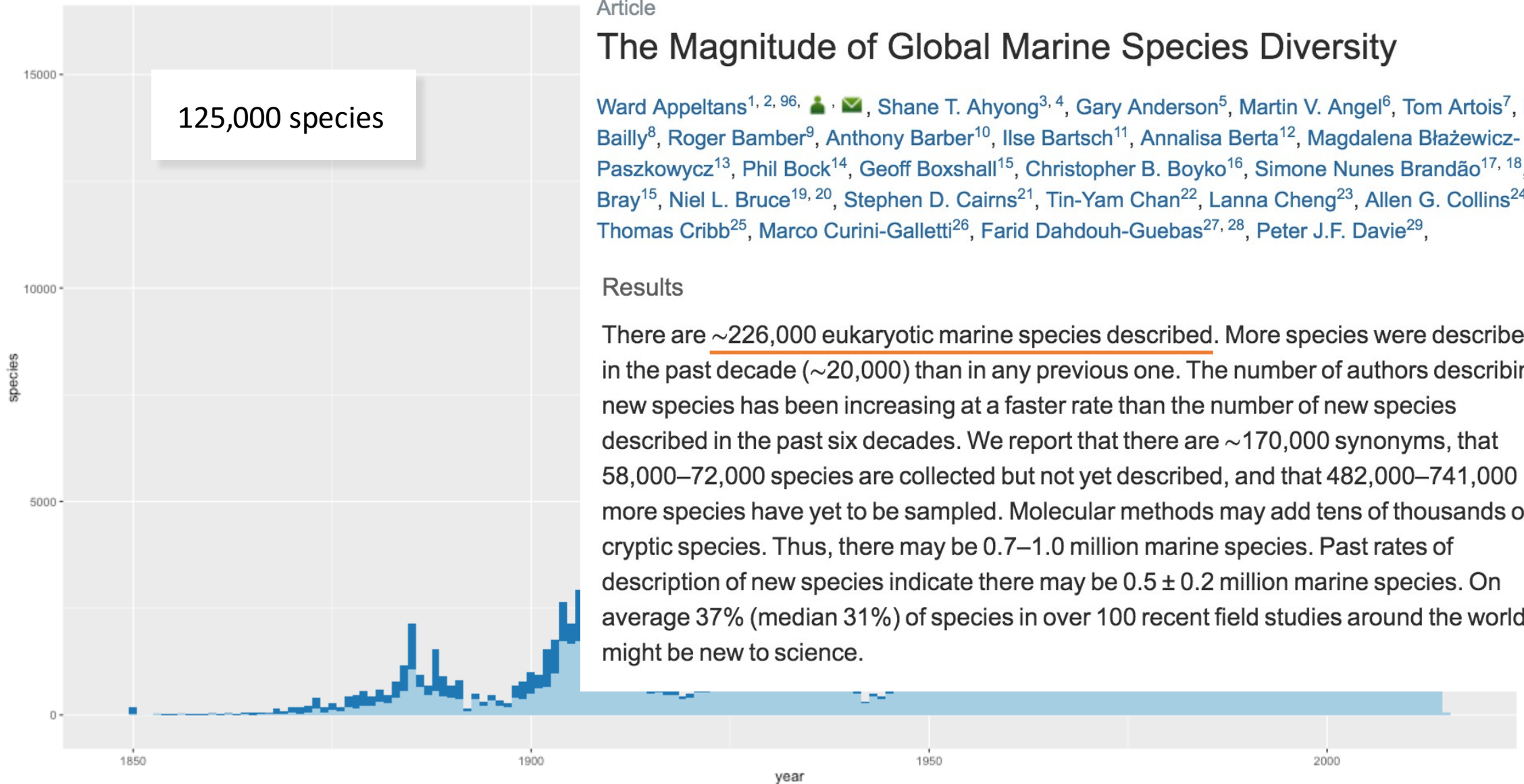
# In numbers



# In numbers



# In numbers



Article

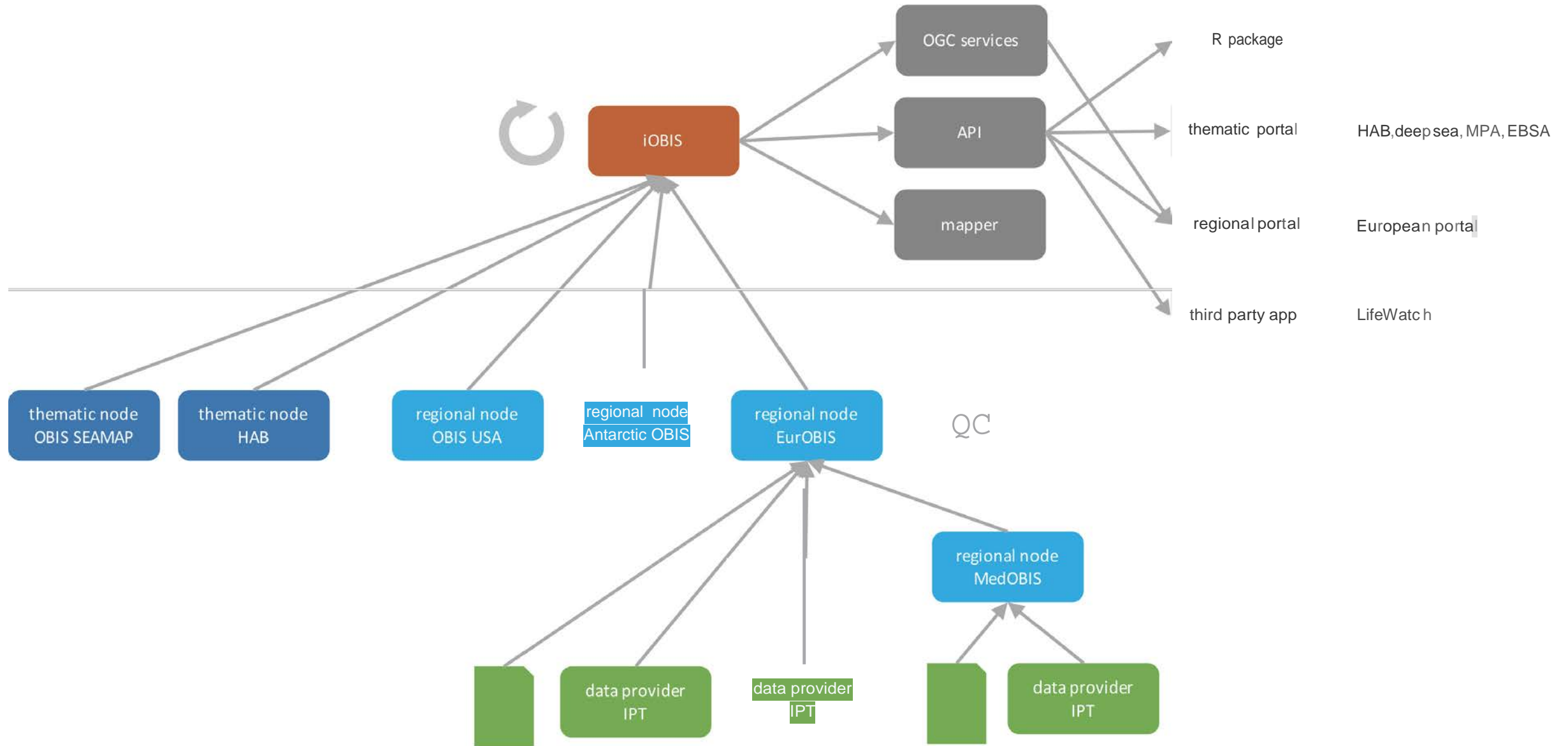
## The Magnitude of Global Marine Species Diversity

Ward Appeltans<sup>1, 2, 96</sup>, , , Shane T. Ahyong<sup>3, 4</sup>, Gary Anderson<sup>5</sup>, Martin V. Angel<sup>6</sup>, Tom Artois<sup>7</sup>, Nicolas Bailly<sup>8</sup>, Roger Bamber<sup>9</sup>, Anthony Barber<sup>10</sup>, Ilse Bartsch<sup>11</sup>, Annalisa Berta<sup>12</sup>, Magdalena Błażewicz-Paszkowycz<sup>13</sup>, Phil Bock<sup>14</sup>, Geoff Boxshall<sup>15</sup>, Christopher B. Boyko<sup>16</sup>, Simone Nunes Brandão<sup>17, 18</sup>, Rod A. Bray<sup>15</sup>, Niel L. Bruce<sup>19, 20</sup>, Stephen D. Cairns<sup>21</sup>, Tin-Yam Chan<sup>22</sup>, Lanna Cheng<sup>23</sup>, Allen G. Collins<sup>24</sup>, Thomas Cribb<sup>25</sup>, Marco Curini-Galletti<sup>26</sup>, Farid Dahdouh-Guebas<sup>27, 28</sup>, Peter J.F. Davie<sup>29</sup>,

### Results

There are ~226,000 eukaryotic marine species described. More species were described in the past decade (~20,000) than in any previous one. The number of authors describing new species has been increasing at a faster rate than the number of new species described in the past six decades. We report that there are ~170,000 synonyms, that 58,000–72,000 species are collected but not yet described, and that 482,000–741,000 more species have yet to be sampled. Molecular methods may add tens of thousands of cryptic species. Thus, there may be 0.7–1.0 million marine species. Past rates of description of new species indicate there may be  $0.5 \pm 0.2$  million marine species. On average 37% (median 31%) of species in over 100 recent field studies around the world might be new to science.

# Structure and data access





# Structure and data access

The screenshot displays the @BIS web application interface. At the top, a navigation menu includes links for Home, Search Data, Maps, About OBIS, Contact, Library, and Data Policy. The main content area is divided into two panels. The left panel, titled 'Data Search', contains several filter categories: Taxa (with 'Cetacea' selected and a red 'X' icon), Datasets, Region (with sub-sections for 'User-defined region' and 'Pre-fixed region' including EEZ, IHO, LME, MEOW, and WHS), Date & Season, and Oceanography. The right panel, titled 'Distribution Map - Points', shows a map of the Caribbean Sea with numerous orange circular data points. The map includes standard GIS controls like 'Pan', 'Zoom in', 'Extent', 'Identify', and 'Layers'. A coordinate pair '-69.91690, 23.67852' is visible in the bottom right corner of the map area.

OBIS is a project of:

**.m.: I8DE II**

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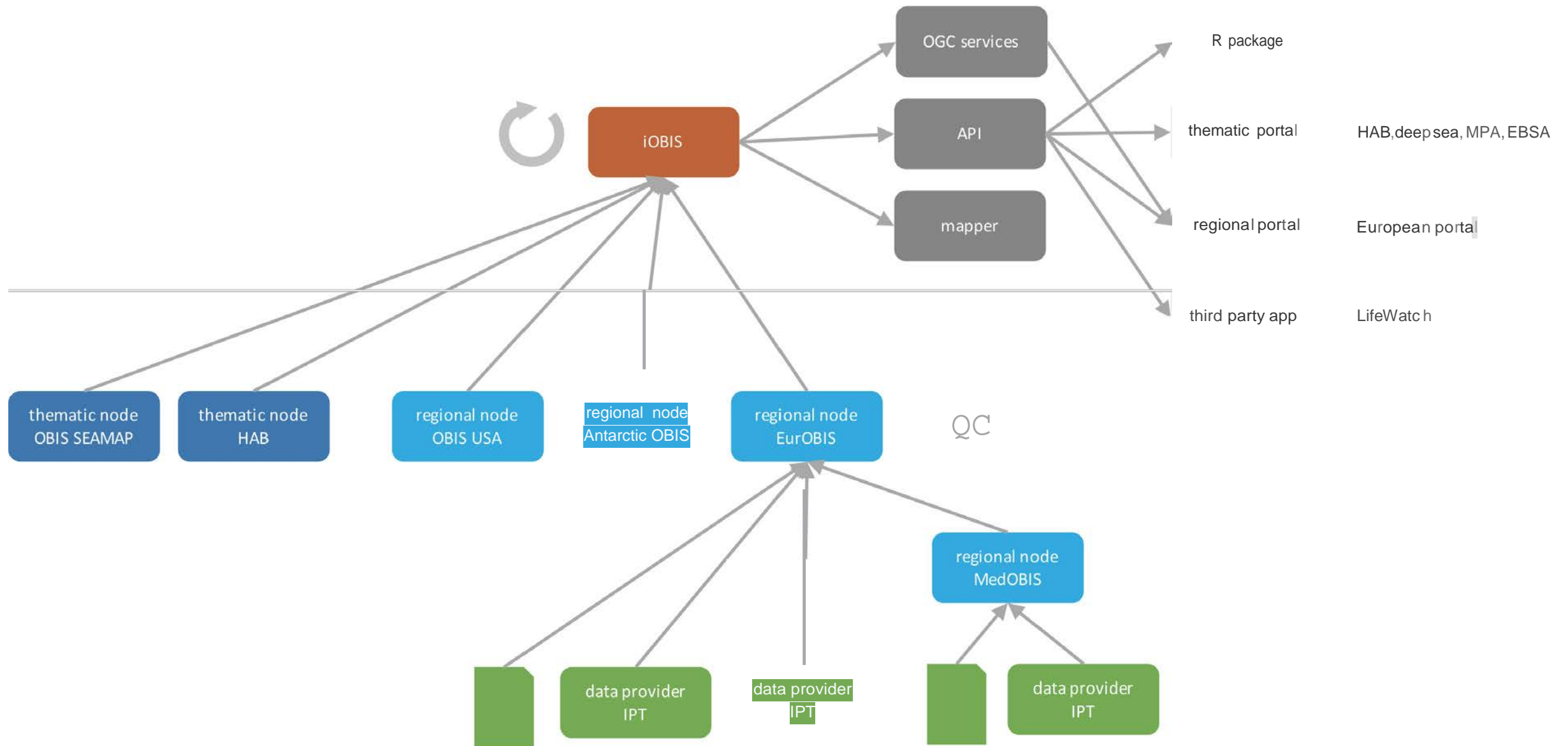
With in-kind support from:



VLIZ

OBIS strives to document the ocean's diversity, distribution and abundance of life. Created by the Census of Marine Life, OBIS is now part of the Intergovernmental Oceanographic Commission (IOO) of UNESCO, under its International Oceanographic Data and Information Exchange (IODE) programme.

# Structure and data access







# Structure and data access

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