Benthic Invertebrate Collection Scripps Institution of Oceanography, University of California San Diego

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The Scripps Institution of Oceanography

Benthic Invertebrate Collection (SIO BIC)

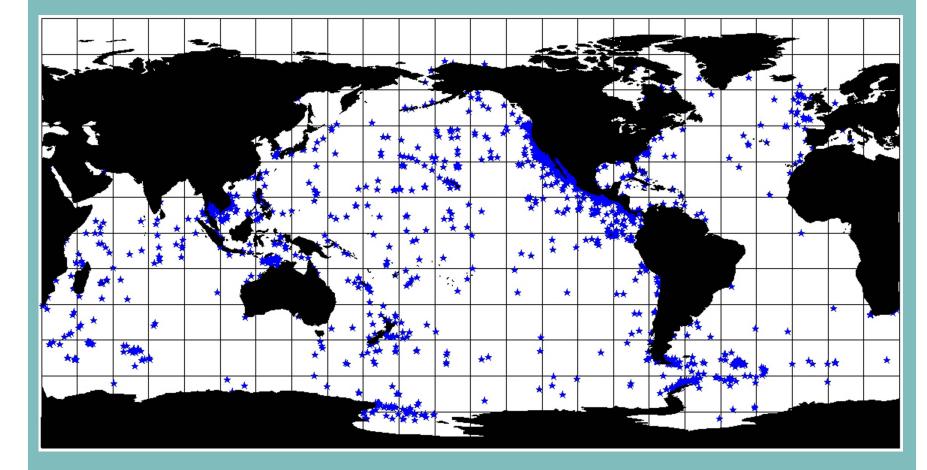
is a university collection sourced through

Scripps scientists, external researchers,



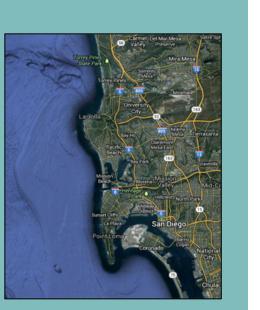
Geographic Scope

Global benthic marine habitats



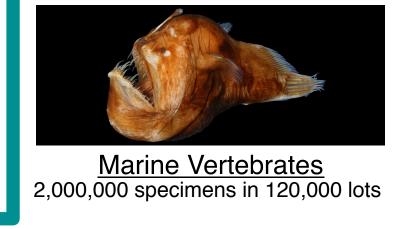
Strengths

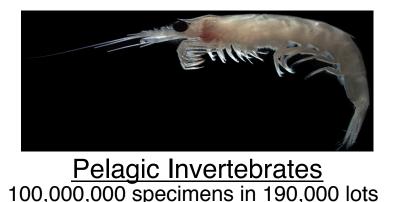
- Southern California region
- Eastern Pacific
- Antarctica
- Deep sea (>1,000 m)
- Chemosynthetic ecosystems



and private collectors. SIO Oceanographic Collections









750,000+ specimens

45,000+ lots (11,319 mollusks)

93 holotypes

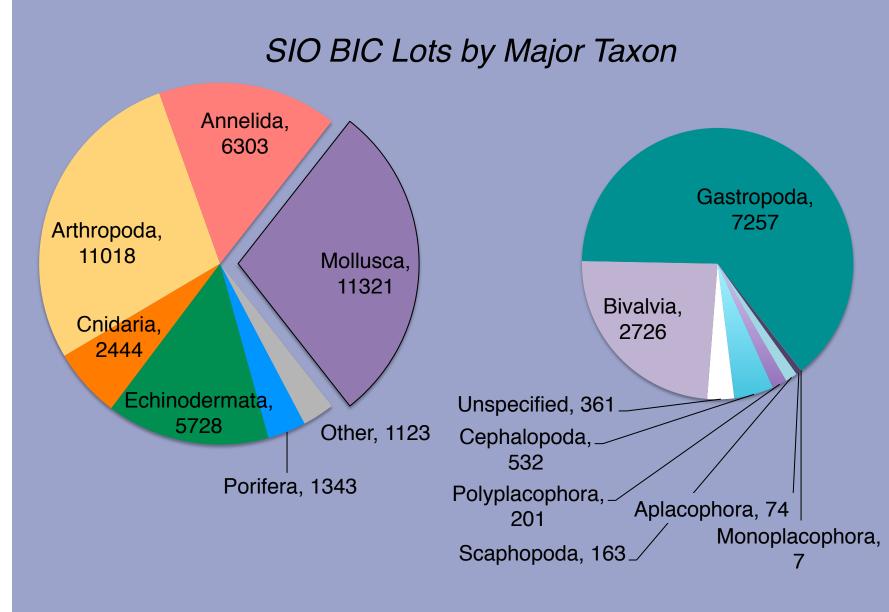
453 paratypes

(61 mollusks)

(7 mollusks)

9500 Gilman Drive #0244 La Jolla, CA 92093-0244 858-822-2818 / cseid@ucsd.edu https://scripps.ucsd.edu/collections/bi





Taxonomic Representation

Phyla: (7 molluscan) Classes: 94 Families: 1,132 (320 molluscan) Genera: 3,315 (1,238 molluscan) Species: 8,817 (4,070 molluscan)



Personnel

Staff: curator, collection manager





- Students: 1 to 6, ~10 hrs/wk as part-time workers or volunteers
- Operating budget: \$5,000/yr

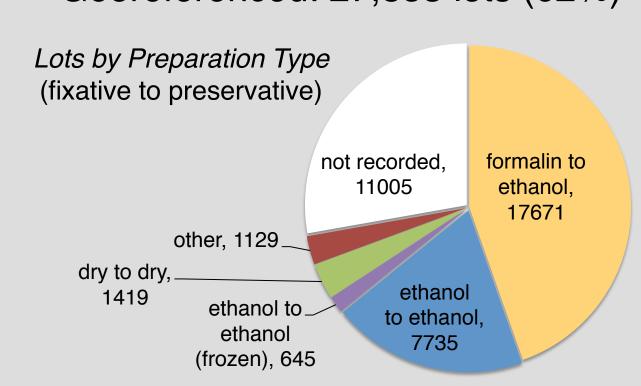
Collection Uses

- Support **research** at SIO & beyond
- Furnish materials for **education**
- Preserve materials in **perpetuity**



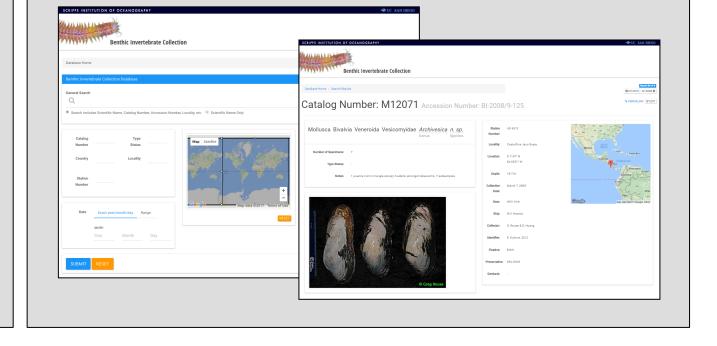
Curation

- Curated: ~40,000/45,000 lots (89%)
- Databased: 39,280 lots (87%)
- Georeferenced: 27,853 lots (62%)



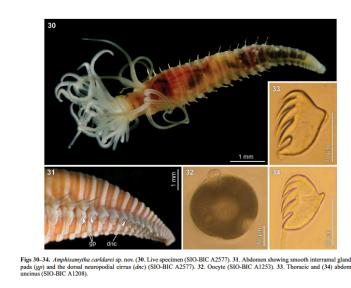
Online Presence

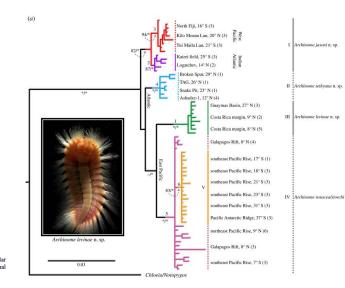
- Searchable catalog http://www.tinyurl.com/SIOBIC
- SIO website, GRSciColl
- iDigBio (coming soon!)

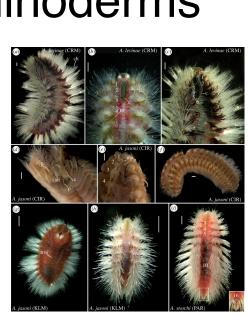


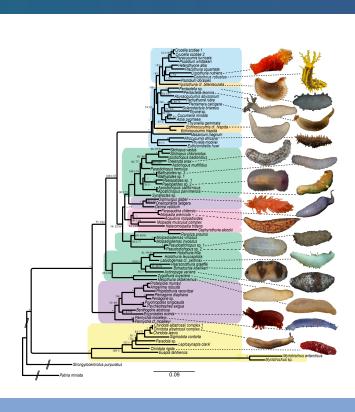
Current Activities

Systematics of Annelids and Echinoderms



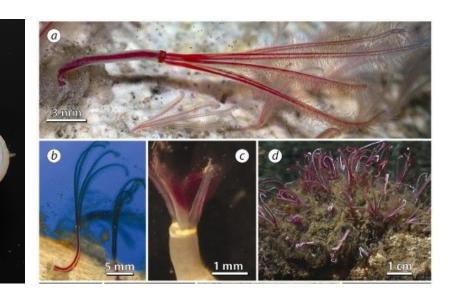












History

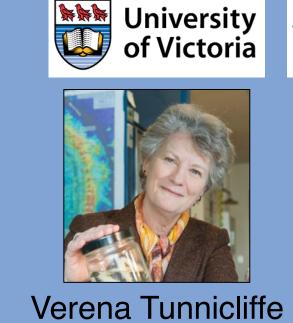
- Earliest BIC specimens collected in 1902 by Dr. William Ritter, first Director of SIO
- SIO founded as the Marine Biological Association of San Diego in 1903
- Public aquarium-museum built in 1910
- SIO acquired by the University of California in **1912**, with UCSD founded in **1960**
- Collections divided into marine vertebrates and invertebrates (1940s) and then benthic and pelagic invertebrates (1960s)
- Collections moved in 1998 to their current home in Vaughan Hall, thanks to NSF grants

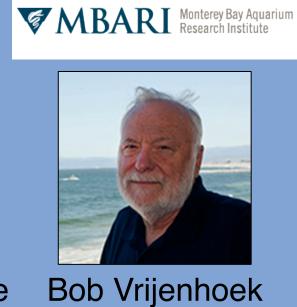




Digitization Projects

- Accepting orphaned collections
- Cataloguing donated private collections
- iDigBio and taxonomic overhaul









Outlook and Needs

- Inventory and prioritize our space
- Start -80 °C collection; organize -20 °C material
- Ventilation, humidity, and backup power issues







