

Academic Programs

The CBM project includes academic programs that promote research, training and capacity building, from undergraduate students to post-doctoral fellowships and professoral chairs. A five year schedule will allow:

- Support for research projects including thesis for undergraduate and graduate students
- Post-Doctoral fellowships
- New professoral chairs (geological, physical, chemical oceanography, phytoplankton, and seagrass specialists)
- Support for short training courses

The project also provides support for outreach and education, sharing knowledge with local communities who interact directly with the marine environment and its biodiversity



Research Products

Among the research products from the first year, the CBM has:

- Six scientific papers on marine biodiversity, gastropods, crustaceans and fishes.
- Two books on marine biodiversity conservation.
- Five research projects, national and international, on biodiversity conservation and monitoring, from coastal to offshore ecosystems.
- Six biodiversity databases. Open access to mollusk, peracarid crustaceans, fishes and fisheries statistics from the Venezuelan sea.

The CBM project is under the umbrella of the Law of Science, Technology and Innovation (LOCTI)



Center for Marine Biodiversity

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UNIVERSIDAD SIMÓN BOLÍVAR



CENTER FOR MARINE BIODIVERSITY

Institute of Technology and Marine Sciences
División de Ciencias Biológicas
Universidad Simón Bolívar





The Concept

The Center for Marine Biodiversity (CBM) is an academic unit of the Simon Bolivar University dependent of the Institute of Technology and Marine Sciences (INTECMAR). Its mission is to study the marine biodiversity in the Venezuelan Caribbean and Atlantic front, using the best technology available, and to provide knowledge on species systematics, environmental dynamics and ecosystem function through scientific contributions, education and outreach.

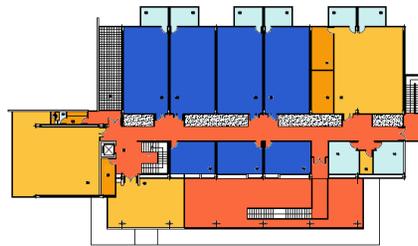
Research carried by the CBM will also provide key answers to problems derived from coastal and offshore human activities and its impact on the rich biodiversity of our tropical seas.



The Building

Designed with the environment in mind, the Center will be located in a new facility with almost 4.000 square meters of working area. With an estimated number of 80 working places for professionals, technicians and students, the building will provide:

- 15 research labs
- 4 teaching labs (biodiversity, instrumentation, data analysis and GIS)
- Areas for biological collections (dry and wet samples, repository of frozen DNA)
- Marine aquaria and tanks for live specimens
- Conference rooms (60 people)
- Lecture room
- Doctoral and post-doctoral modules



The concept was developed integrating the needs of the researchers and the most advanced technology for the study of marine biodiversity.

Laboratories

- Marine Biology
- Fish Biology
- Peracarid Crustaceans
- Zooplankton
- Phytoplankton/Seagrasses
- Fisheries
- Histology
- Sedimentology
- Oceanography chemistry/physics
- Experimental Ecology
- Molecular Systematics
- Remote Sensing / GIS



Environmentally Friendly

Architectural design of the building will allow for energy saving by using natural illumination through glass walls. These glass walls will also have the appropriate angles to avoid bird collisions. Several recycling systems will be implemented including water saving and recycling, containers for collection of glass, paper and plastic wastes, as well as the application of protocols to reuse plastic bags and chemicals such as formaldehyde and alcohol.

As a significant element of the university campus, the building will host the biodiversity mural, a work of art that will reflect the interaction between man, the ocean, and the living beings in it.