

# Rescuing the knowledge base of Venezuela's marine biodiversity

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**Programme:** BID

**Project ID:** BID-CA2020-025-NAC

**Project lead organization:** Fundacion Caribe Sur

**Project implementation period:** 5/7/2021 - 31/10/2022

**Report approved:** 6/2/2023

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## Final Narrative Report

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### Executive Summary

Most of the milestones of the project were implemented. One of the key achievements aside from the 67 datasets and 42,170 new registries, considered a high degree of success with respect to the previous datasets available through the OBIS Caribbean Node for Venezuela, has been the establishment of an interinstitutional working group of 16 researchers that will carry on making capacity training in data mobilization available to colleagues and the younger generations of researchers and students. Early progress report milestones such as the online workshop training: "Introduction to GBIF and OBIS to mobilize biodiversity data" was initiated in December 2021 and conducted during the first quarter of 2022. A second online workshop will be held in February 2023. The training program with its learning objectives and activities were shared with our partner NGO PROVITA who also organized a similar workshop, focused on terrestrial biodiversity within their BID Institutional project. Two other training workshops planned were not achieved during the intended reporting period, but the working group is committed to give continuity to this program. The only setback to the training program has been the internet connectivity problems in Venezuela that has further deteriorated, making connectivity frequently disrupted due to infrastructural failings and service providers being temporarily blocked.

A webinar to promote adoption of Dwc standards and use of OBIS/GBIF was conducted and is available at CaribeSur's YouTube channel.

An interesting outcome is the production of a Datapaper as a result of the collaborative work from all of the 16 researchers involved in the Project and it has been approved to be published by a specialized journal (Biodiversity Data Journal).

Inventorying the literature to be digitized is pending activity as universities in Venezuela have not yet fully reopened due to Covid. The Project's coordination expected this could be completed in 2022, but this has only been partially possible. At the moment of the delivery of this report institutional coordinators have advanced scanning a total of 97 thesis, reports and other printed materials that were not available in digital format to proceed with this objective and a contact with online repositories have been established in order to seek an open access repository platform that provides an alternative to national organizations and individuals without the infrastructure to support their own.

A national data publishing institution registered with GBIF is still a pending matter due to various reasons, including current lack of capacity and personnel on behalf of the responsible authorities. Related activities for all deliverables were carried out during the project period i.e. capacity building, online capacity training material, help-desk webinars, online data mobilisation seminar and visibilization through social media.

A set of micro videos (in spanish with subtitles in our YouTube channel) has been produced as a result of the implementation of the Project and will be available through [www.youtube.com/user/caribesurorg](http://www.youtube.com/user/caribesurorg). This additional outcome of the Project meets one of the objectives of CaribeSur traducing scientific knowledge to the general public and giving visibility to this initiative.

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### Progress against milestones

**Has your project completed all planned activities?: No**

**Has your project produced all deliverables: No**

**Rationale:** Some of the 27 datasets originally listed were not produced due to one of the following reasons: the passing of two team members to COVID while other datasets had their names changed and others are expected to be achieved later. However at the end of the Project's present reporting period, a total of 67 datasets have been produced with 42,172 new registers.

The Historic Ocean Information objective through digitized theses, reports and historic issues of national scientific journals, has been achieved partially due to universities in Venezuela not having fully reopened, but only a partial outcome of this objective has been possible until the moment of the delivery of this report. Nevertheless, institutional coordinators have advanced scanning printed materials up to a total of 97 that are now available in digital format, including a span of 4 decades of the Instituto Oceanografico de Venezuela's Bulletin numbers which were not available in a digitized format until now.

## Report on Activities

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### Summary of the implementation of the project activities

An inventory of all data sources available at national institutions was completed in order to prioritize data mobilization efforts. Each institutional coordinator prepared a curated list of datasets by institution, prioritizing those whose raw data were semi-digitized or where data providers were easily accessible to answer any query during digitization. A total of 27 datasets were identified in 2021 and by the end of the Project, 67 datasets have been published in OBIS/GBIF.

A first online workshop training: "Introduction to GBIF and OBIS to mobilize biodiversity data" was initiated in December and conducted during the first quarter of 2022. The training program with its learning objectives and activities were shared with our partner NGO PROVITA who also organized a similar workshop, focused on terrestrial biodiversity within their BID Institutional project. Two other training workshops planned for June and August 2022 were not achieved during the intended reporting period, a second workshop is scheduled in February 2023 and the working group is committed to give continuity to this program with similar events as post-project's activities. The only setback to the training program has been a result of the internet connectivity problems in Venezuela that have further deteriorated, making connectivity frequently disrupted due to infrastructural failings and service providers being temporarily out of service.

A guideline and processes for the preparation and publication of datasets has been established, the institutional coordinators and other researchers joining the working group are well prepared for the task.

While taxonomic and geographical gaps for marine biodiversity in Venezuela have been identified, inventorying the literature to be digitized is a pending activity as universities in Venezuela have not fully reopened. The Project's coordination expected this could be completed by 2022, but until the delivery of this report, although the expected inventory has not been achieved, 49 theses and 48 bulletins have been scanned and some are already available in national open repositories. Providing scanners for institutional use has been a major advance in scanning theses, reports and other printed materials and alternative open access repository platforms are being sought to support national organizations and individuals lacking appropriate infrastructure of their own. Meanwhile, available digitized material can be found at [www.iov-udo.com](http://www.iov-udo.com) the web page of the Instituto Oceanografico de Venezuela's Bulletin and [www.saber.ucv.ve](http://www.saber.ucv.ve) the open access repository of the Universidad Central de Venezuela.

The Project has definitely had a positive impact on all of the participating institutions and researchers, strengthening collaboration and creating a network among participating institutions through the establishment of an interinstitutional working group that has acquired training capacity in data mobilization. An excellent strategy to move forward,

A first open access webinar was conducted to improve knowledge about GBIF, OBIS and its tools and functionalities, and is available at CaribeSur's YouTube channel ([www.youtube/user/caribesurorg](https://www.youtube/user/caribesurorg)). The working group has plans to hold similar activities as post-project activities to attract other data holders to join the team and increase awareness on the importance to publish occurrence and sampling data on GBIF/OBIS.

Two participants obtained the BID Capacity enhancement workshop certification. One of the participants has been invited to join the OBISCaribe team of data providers.

An interesting outcome of the Project is the production of a Datapaper as a result of the collaborative work from all of the researchers involved. Its manuscript has been approved and will be published in a specialized journal (Biodiversity Data Journal).

A formal participation of Venezuela in the GBIF network through the National Office of Biological Diversity has not been achieved. A national data publishing institution registered with GBIF is still a pending matter due to various reasons, including current lack of capacity and personnel on behalf of the responsible authorities but the successful outcome of CaribeSur's Project and that of our partner NGO Provita is definitely a corner stone in this process.

Promotion of the Project's activities and achievements has been implemented through social media messaging and videos (Twitter: @CaribeSurOrg, Instagram: @caribesurorg and YouTube: [www.youtube.com/user/caribesurorg](http://www.youtube.com/user/caribesurorg) ), to showcase the project and its results with the intention to reach out to additional data holders and promote the adoption of DwC standards and OBIS/GBIF information systems and tools, as well as giving visibility to the initiative. More information is available in CaribeSur's webpage: [www.caribesur.org](http://www.caribesur.org) and blog: [www.caribesur.blogspot.com](http://www.caribesur.blogspot.com)

### Completed activities

#### **Activity: Assess number of undigitised data sources for prioritisation and preparation of final data mobilisation plan**

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**Description:** Complete an inventory of all data sources by institution and format to develop prioritisation criteria. Develop a data mobilisation plan and key progress indicators (KPIs) per regional coordinator/ institution

**Start Date - End Date:** 7/7/2021 - 30/9/2022

**Verification Sources:** GBIF Project's page BID-CA2020-025-NAC

#### **Activity: Build capacity in team members and data holders for data mobilisation**

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**Description:** OBIS Caribbean node coordinators to deliver at least three training workshops to capacitate national partners on digitising data sources, Darwin core standards, EML metadata specifications and IPT.

**Start Date - End Date:** 7/9/2022 - 30/9/2022

**Verification Sources:** Relevant sources of verification are included as attachments to this Report.

CaribeSur Team Members Meeting Webminar 18-08-2021 >

<https://youtu.be/4P4AiT7PSHK>

IOC-OTGA-INVEMAR Training Evaluation Webminar 13-10-2021

<https://youtu.be/HMz3i6iNfpc>

• 12-11-2021 OBIS HelpDesk Webminar > <https://youtu.be/p7G05MDkgxQ>

• 24-11-2021 OBIS HelpDesk Webminar > <https://youtu.be/kDC8AZwq9Ow>

• 20-12-2021 OBIS HelpDesk Webminar > <https://youtu.be/ckqwBAfGsu0>

• Introduction to Biodiversity Data Mobilization Workshop Google Classroom:

<https://classroom.google.com/c/NDlyNTk5NzA3MzYy> Code: lq7tqei

- First Q&A Session: 06 Dec 2021: Modules 1,2,3 [https://youtu.be/g\\_W1AJCVVGI](https://youtu.be/g_W1AJCVVGI)

- Second Q&A Session 10 Dec 2021: Workshop Modules 4,5 <https://youtu.be/jZW8Xvoquu4>

- Third Q&A Session: 13 Dec 2021 Workshop Module 6 [https://youtu.be/KOvUabbL\\_Is](https://youtu.be/KOvUabbL_Is)

Selfie Taller 1DIC GBIF CaribeSur.png

#### **Activity: Implement pipeline for preparation and publication of datasets**

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**Description:** Agree and implement guidelines and processes for data digitisation, centralisation, backup and mobilisation in agreement with the data mobilisation plan. This will involve a series of workshops with partners as well as fortnight meetings with regional coordinators to quantify progress through KPIs

**Start Date - End Date:** 7/7/2022 - 30/9/2022

**Verification Sources:** GBIF Project's page BID-CA2020-0225-NAC

#### **Activity: Integrate digitised products (dataset and literature) to host databases and repositories**

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**Description:** Integrate digitised products (dataset and literature) to host databases and repositories.

**Start Date - End Date:** 2/9/2021 - 30/9/2022

**Verification Sources:** Datasets are available at the GBIF Project's page BID-CA2020-025-NAC.

Upload of digitised literature is pending, although some can be found at IOV-UDO.com

#### **Activity: Evaluate project's impact and write final report**

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**Description:** Evaluate against KPIs and assess coverage of geographical and taxonomic knowledge gaps achieved by data products and potential biodiversity products derived

**Start Date - End Date:** 1/9/2022 - 30/9/2022

**Verification Sources:** GBIF Project page BID-CA202-025-NAC

#### **Activity: Organise, publicise and record webinar**

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**Description:** Online webinar to showcase the project and its intermediate products, recruit additional data holders and promote the adoption of DwC standards and OBIS/GBIF information systems and tools

**Start Date - End Date:** 8/6/2022 - 8/6/2022

**Verification Sources:** Seminario Virtual Proyecto GBIF-CaribeSur - 8 junio 2022

<https://youtu.be/2VhmZ4QXIAM>

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### **Activity: Prepare and submit midterm report**

**Description:** Prepare and submit midterm report with KPIs and attached means of verification for previous activities

**Start Date - End Date:** 31/1/2022 - 31/1/2022

**Verification Sources:** Project Page BID-CA2020-025-NAC

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### **Activity: Produce datasets on marine biodiversity**

**Description:** Digitisation of data sources and biodiversity records extraction, including quality control / quality assurance protocols

**Start Date - End Date:** 5/7/2022 - 30/9/2022

**Verification Sources:** GBIF Project page BID-CA2020-025NAC

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### **Activity: BID Capacity enhancement workshop certification obtained**

**Description:** One coordinator of the team to participate and gain certification in the BID capacity enhancement workshop

**Start Date - End Date:** 1/8/2022 - 9/12/2021

**Verification Sources:** Advance badge received by two participants.

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### **Activity: Publish at least one data-paper**

**Description:** Prepare, submit and publish as open access at least one datapaper or research article from the datasets produced in the project with focus on the biodiversity of Marine Protected Areas in Venezuela

**Start Date - End Date:** 1/2/2022 - 30/9/2022

**Verification Sources:** A datapaper has been prepared, submitted to an specialized journal and is currently waiting final review for its publishing as open access.

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### **Activity: Contact and engage relevant stakeholders to increase participation in GBIF network and geographic coverage within OBIS datasets**

**Description:** Advocate for a formal participation of Venezuela in the GBIF network with the director of the National Office of Biological Diversity. Engage with Universities department heads, coordinators and deans to present OBIS and GBIF as good alternatives to host and secure the preservation of biodiversity information produced by researchers and students.

**Start Date - End Date:** 5/7/2022 - 30/9/2022

**Verification Sources:** A formal registration of Venezuela as a member of the GBIF network through a national data institution has not been achieved. Although all the participating universities and research institutions are well aware of OBIS and GBIF as good alternatives to host and secure the preservation of biodiversity information produced by researchers and students.

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## **Report on Deliverables**

### **Deliverables - Summary**

The Project proposal originally described 27 datasets and while a larger number of datasets were identified when inventorying all data sources availability by institution, by the end of the Project 67 datasets have been published in OBIS/GBIF with a total of 42,172 registries. Of the 27 original datasets some were not delivered due to the following: passing of 2 members of the team due to Covid-19, others had their original name or geographical scope changed\*, while others were promised by some researchers but not delivered and some others were not produced due to restrictions and accessibility to publications in the university's libraries because of Covid and other matters. Other reasons for not delivering some of the described datasets in the Project proposal have to do with material means among researchers, including obsolescent equipments and access to internet. Also, one of the marine research institutions that originally supported the Project proposal decided not to participate due to other priorities.

A valuable outcome of the Project is the establishment of an interdisciplinary and interinstitutional working group with the capacity to continue post-project activities, although much data availability will depend on the resumption of activities in each of the national institutions involved and available means for the team members once the project is finalized.

Datasets that changed names:

- \* Dataset "Population status of the blue crab *Callinectes* spp. in Cuare Wildlife Refuge" changed its name to "Community features of Swimming crabs (Portunidae) from Golfete de Cuare- Falcón-Venezuela" and increased the number of registers from 66 to 124.
- \* Dataset "Littoral brachyuran crabs (Crustacea: Decapoda) from Falcon, Venezuela" changed its name to "Diversity, abundance and other ecological features of littoral brachyuran crabs from Falcon State, Venezuela" and reduced registers from 200 to 168.
- \* Dataset "Megabenthos of the Paraguana Peninsula (Venezuela)" changed its name and regional scope to "Megabenthos biodiversity of the northwest coast of Paraguana Peninsula (Venezuela)" thus reducing its registers from 1800 to 807.

Datasets that were not delivered due to COVID related matters:

- Ichthyoplankton of the northeastern Venezuelan coast - IOV
- Phytoplankton of the Northeastern Venezuelan coast - IOV
- Zooplankton of the Northeastern Venezuelan coast - IOV
- Seagrass-associated molluscs from the northeastern coast of Venezuela – IOV
- Decapods of Margarita Island – ECAM

Dataset that will not be produced:

- The marine fish of Venezuela - FLASA

Pending an other new Datasets will be produced as a result of post Project activities.

## Deliverables produced by the project

### Dataset deliverables

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#### **Benthic macroalgae from the coasts of Venezuela 1822-2021**

**Dataset type:** Occurrences

**Dataset scope:** A database with more than ten (10) years of information gathering and sampling in different localities of the country is presented. This database contains to date a total of 10.435 records of benthic macroalgae, with locations distributed along the Venezuelan coast.

**Number of records:** 10,435

**Data holder:** IZET-UCV

**Data host institution:** IZET-UCV

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/pjezmu

**Expected date of publication:**

#### **Zooplankton del Parque Nacional Morrocoy 2000-2002 (Zooplankton of Morrocoy National Park 2000-2002)**

**Dataset type:** Sampling Event

**Dataset scope:** Abundance, biomass and environmental variables associated with zooplankton groups in 13 stations located in Morrocoy National Park, Venezuela 2000-2002

**Number of records:** 8,066

**Data holder:** IZET-UCV

**Data host institution:** IZET-UCV

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/jsb82y

**Expected date of publication:**

#### **Diversidad de Foraminiferos en Venezuela**

**Dataset type:** Occurrences

**Dataset scope:** Updated list (1918-2010) including the respective synonymy, of foraminifera from the coasts of Venezuela. The compendium includes around 4,514 records for 1,035 species distributed along the Venezuelan coast, including the one corresponding to the islands. Of this total, 271 species are endemic to Venezuela.

**Number of records:** 4,511

**Data holder:** USB

**Data host institution:** USB

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/k78gtj

**Expected date of publication:**

#### **Records of the vertical distribution of planktonic copepods in the Southern Caribbean**

**Dataset type:** Sampling Event

**Dataset scope:** Counts of copepods from the Cariaco Basin and adjacent Venezuelan waters

(Southern Caribbean) collected on five oceanographic cruises made between 1967 and 1968.

**Number of records:** 2,268

**Data holder:** Museo Marino

**Data host institution:** IZET-UCV

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/22yzcn

**Expected date of publication:**

#### **Spatial and temporal characterization of zooplankton in Los Roques Archipelago (Venezuela)**

**Dataset type:** Sampling Event

**Dataset scope:** 90 sampling events, carried out in 2000, with the purpose of characterizing the composition, abundance, spatial and temporal variation of zooplankton in 5 zones of Los Roques Archipelago National Park

**Number of records:** 1,824

**Data holder:** IZET-UCV

**Data host institution:** IZET-UCV

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/22yzcn

**Expected date of publication:**

#### **Espojas asociadas a raíces de Rhizophora mangle del Parque Nacional Morrocoy**

**Dataset type:** Sampling Event

**Dataset scope:** Ocurrencia y cobertura de las especies de esponjas asociadas a las raíces de R. mangle en 3 localidades del Parque Nacional Morrocoy, Venezuela. Los registros se realizaron mensualmente durante el 2011.

**Number of records:** 1,301

**Data holder:** IZET-UCV

**Data host institution:** IZET-UCV

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/tgjd5p

**Expected date of publication:**

#### **Biodiversidad Marina del Parque Nacional Laguna de La Restinga**

**Dataset type:** Occurrences

**Dataset scope:** Registro de la biodiversidad marina del Parque Nacional Laguna de La Restinga Venezuela, con base en diversos informes técnicos, trabajos de grado y publicaciones publicados entre 1973 y 2012.

**Number of records:** 1,019

**Data holder:** ECAM-UDO

**Data host institution:** ECAM-UDO

**% complete:** 100%

**Status update:** Completed

**DOI:** 15468/3b7u3x

**Expected date of publication:**

#### **IOV - Distribución espacial y temporal del fitoplancton en el Golfo de Cariaco**

**Dataset type:** Sampling Event

**Dataset scope:** Spatial and temporal distribution of phytoplankton in the Gulf of Cariaco, Sucre state, in seven stations between February 2014 and January 2015.

**Number of records:** 1,144

**Data holder:** IOV-UDO

**Data host institution:** IOV-UDO

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/eqav4c

**Expected date of publication:**

#### **Megabenthos biodiversity of the northwest coast of Paraguana Peninsula (Venezuela)**

**Dataset type:** Sampling Event

**Dataset scope:** Megabenthic invertebrate biodiversity as a result of an environmental monitoring program for assessing the biological component of the sedimentary matrix that could be affected by the exploratory process of the Perla 1X well located in the northwest coast of the Paraguana Peninsula, within the Golfo de Venezuela region.

**Number of records:** 807

**Data holder:** USB

**Data host institution:** USB

**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/d2jsfq  
**Expected date of publication:**

#### **Marine Fishes from Archipelago los Roques, Venezuela**

**Dataset type:** Occurrences  
**Dataset scope:** Database of fish species present in the Archipelago Los Roques (ALR) , Venezuela. Reports are based mainly on the fish collections present at the Museo Marino de Margarita, Isla de Margarita, Venezuela, and species reports from papers and books published by different authors.  
**Number of records:** 861  
**Data holder:** Museo Marino  
**Data host institution:** Museo Marino  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/rkassh  
**Expected date of publication:**

#### **Fitoplancton del Saco del Golfo de Cariaco, Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Composición taxonómica del fitoplancton en el sector oriental del Golfo de Cariaco, Venezuela. Las muestras fueron recolectadas mensualmente entre julio 2009 y febrero de 2010.  
**Number of records:** 739  
**Data holder:** IOV-UDO  
**Data host institution:** IOV-UDO  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/ghqmyp  
**Expected date of publication:**

#### **Density and distribution of phytoplankton, copepods and cladocerans in Mochima Bay (Venezuela) on March 2016**

**Dataset type:** Sampling Event  
**Dataset scope:** Records of the composition and density of phytoplankton, copepods and marine cladocerans assemblage from Mochima Bay (Venezuela) during 2 days of sampling on March 2016  
**Number of records:** 546  
**Data holder:** IZET-UCV  
**Data host institution:** IZET-UCV  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/cxykg6  
**Expected date of publication:**

#### **Biodiversidad de Moluscos de la isla de Margarita**

**Dataset type:** Occurrences  
**Dataset scope:** Biodiversidad de moluscos marinos de la isla de Margarita, Venezuela, con base en fuentes bibliográficas  
**Number of records:** 647  
**Data holder:** ECAM-UDO  
**Data host institution:** ECAM-UDO  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/xka6nf  
**Expected date of publication:**

#### **Macroalgas del Parque Nacional Laguna de La Restinga, isla de Margarita, Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Evaluación taxonómica de las macroalgas asociadas a raíces de mangle rojo (Rhizophora mangle) en el Parque Nacional Laguna de La Restinga, Venezuela, entre junio-2007 y mayo-2008  
**Number of records:** 613  
**Data holder:** ECAM-UDO  
**Data host institution:** ECAM-UDO  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/3apmzx  
**Expected date of publication:**

#### **Benthic decapod crustaceans (Crustacea: Decapoda) of Cubagua Island, Venezuela**



**Dataset type:** Sampling Event

**Dataset scope:** biodiversity of crustacean decapods from Cubagua island, Venezuela that form part of the project "Estudio Bionómico de Cubagua" held between 2001 and 2004 and published by

Hernandez\_Avila et al, 2007

**Number of records:** 564

**Data holder:** Museo Marino de Margarita

**Data host institution:** Museo Marino de Margarita

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/u35vn6

**Expected date of publication:**

#### **Peces de las lagunas costeras de Isla Margarita, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Comunidades ictiofaunísticas de las lagunas costeras de Los Portillos, Boca de Palo, Laguna de Raya, Punta de Piedras y Punta de Mangle, de la isla de Margarita, Venezuela.

**Number of records:** 475

**Data holder:** ECAM-UDO

**Data host institution:** ECAM-UDO

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/j3b7q8

**Expected date of publication:**

#### **Copépodos del Golfo de Cariaco, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** An analysis of the temporal and spatial variation of the copepods with respect to its abundance and composition was carried out in the eastern zone of the Gulf of Cariaco, Sucre state, Venezuela. Monthly samples were collected (July 2009 to February 2010) from nine stations

**Number of records:** 447

**Data holder:** IOV-UDO

**Data host institution:** IOV-UDO

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/akt3bc

**Expected date of publication:**

#### **Transporte del meso y macrozooplancton en la Boca San Carlos - Zapara del Sistema del Lago de Maracaibo, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Datos sobre el desplazamiento del zooplancton, su composición, abundancia a distintas profundidades y según el clima en la Boca San Carlos, ubicado al noroeste de la Bahía El Tablazo, Lago de Maracaibo, Venezuela.

**Number of records:** 221

**Data holder:** LUZ

**Data host institution:** LUZ

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/kt9qj7

**Expected date of publication:**

#### **Composición del fitoplancton y zooplancton en zonas adyacentes a la Ciénaga de Los Olivitos-Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Inventario y abundancia del fitoplancton y de zooplancton presente en el manglar del refugio de Fauna Silvestre y Reserva de Pesca Ciénaga Los Olivitos, Estado Zulia y sus adyacencias.

**Number of records:** 296

**Data holder:** LUZ

**Data host institution:** LUZ

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/p82na6

**Expected date of publication:**

#### **Peces asociados a una pradera de fanerógamas marinas en el PN Archipiélago Los Roques**

**Dataset type:** Sampling Event

**Dataset scope:** composición y la variación temporal de la ictiofauna asociada a una pradera de fanerógamas marinas ubicada en el cayo Dos Mosquises Sur, Archipiélago Los Roques, Venezuela

**Number of records:** 196



**Data holder:** IZET-UCV  
**Data host institution:** IZET-UCV  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/sum5em  
**Expected date of publication:**

#### **Corales escleractínidos de La Orchila, Venezuela, 1976**

**Dataset type:** Sampling Event  
**Dataset scope:** Ocurrencia de corales escleractínidos en el Arrecife El Burrito, La Orchila - Venezuela.  
**Number of records:** 207  
**Data holder:** IZET-UCV  
**Data host institution:** IZET-UCV  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/thzggz  
**Expected date of publication:**

#### **Abundancia y distribución de los Branchiopoda (cladóceros) marinos del Parque Nacional Mochima, estado Sucre, Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Composición, abundancia y distribución bimensual entre diciembre 2015 y octubre 2016, en 6 estaciones, distribuidas en 3 estaciones internas (Bahía de Mochima) y 3 estaciones externas (Islas Las Caracas)  
**Number of records:** 141  
**Data holder:** IOV-UDO  
**Data host institution:** IOV-UDO  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/57bbd4  
**Expected date of publication:**

#### **Diversity, abundance and other ecological features of littoral brachyuran crabs from Falcon State, Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Diversity, abundance and other ecological features of littoral brachyuran crabs from Falcon State, Venezuela.  
**Number of records:** 168  
**Data holder:** IVIC  
**Data host institution:** IVIC  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/h4ex9v  
**Expected date of publication:**

#### **Componentes biológicos estudiados en el área de influencia del tramo D, poliducto SUFAZ. La primera fase del Plan de Monitoreo y Seguimiento en el marco del proyecto SUFAZ**

**Dataset type:** Occurrences  
**Dataset scope:** Characterization of fishing resources, benthic and planktonic communities (phyto-, zoo- and ichthyoplankton) in the Gulf of Venezuela. Two survey campaigns June and September 2012 as part of the SUFAZ project, B-BACI design component.  
**Number of records:** 197  
**Data holder:** INTECMAR-USB  
**Data host institution:** INTECMAR-USB  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** DOI10.15468/2nbqsc  
**Expected date of publication:**

#### **Macroalgas del área de influencia del terminal marino de la empresa Salinera Sacosal, Araya, Estado Sucre, Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Se recolectaron macroalgas en 11 estaciones con substrato rocoso situadas en el área de influencia del terminal marino de Araya (estado Sucre, Venezuela) en junio de 2011.  
**Number of records:** 179  
**Data holder:** IOV-UDO  
**Data host institution:** IOV-UDO  
**% complete:** 100%

**Status update:** Completed  
**DOI:** 10.15468/ryfemd  
**Expected date of publication:**

#### **Marine Invasive Species of Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** data Data from a literature collection review, as part of an undergraduate thesis. The literature includes all pdf found after searching for marine invasive species or non-native marine species in Venezuela, in order to study the spatial distribution, dominant groups, hot-spots and other features.  
**Number of records:** 158  
**Data holder:** INTECMAR-USB  
**Data host institution:** INTECMAR-USB  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/bm7fh8  
**Expected date of publication:**

#### **Crustaceos decapodos asociados a Stichodactyla helianthus Isla Larga, Carabobo, Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Identificación de las especies de crustáceos decápodos asociados a un agrupamiento de la anemona Stichodactyla helianthus en un arrecife franjeante de Isla Larga, en el Parque Nacional San Esteban, Carabobo, Venezuela, realizado entre julio 2010 y julio 2011  
**Number of records:** 263  
**Data holder:** BIOMAC-UC  
**Data host institution:** BIOMAC-UC  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/n24x9m  
**Expected date of publication:**

#### **Peces de arrecifes coralinos de Isla Larga y Alcatraz, PN San Esteban, Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Caracterización de las especies de peces presentes en dos arrecifes coralinos del Parque Nacional San Esteban, ubicado en el estado Carabobo, Venezuela (Isla Larga y Alcatraz) 2006-2007  
**Number of records:** 154  
**Data holder:** BIOMAC-UC  
**Data host institution:** BIOMAC-UC  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/6aeejv  
**Expected date of publication:**

#### **Peces asociados a los arrecifes Coralinos del Parque Nacional Morrocoy, Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Caracterización de la comunidad íctica de Playa Mero, Cayo Sombrero y Cayo Peraza, en los arrecifes coraalinos del Parque Nacional Morrocoy, Venezuela entre 1997 y 2009  
**Number of records:** 311  
**Data holder:** BIOMAC-UC  
**Data host institution:** BIOMAC-UC  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/uevh3n  
**Expected date of publication:**

#### **Demospongias de la Laguna La Restinga, Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Analisis de la variación espacio temporal de la abundancia, cobertura, diversidad y riqueza de especies de esponjas dentro de la laguna de La Restinga, isla de Maragita, Venezuela  
**Number of records:** 199  
**Data holder:** ECAM-UDO  
**Data host institution:** ECAM-UDO  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/s5k5vt  
**Expected date of publication:**

#### **Peces asociados a raíces de manglar en el PN Morrocoy, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Conjunto de datos del proyecto de tesis doctoral titulado: Patrones de distribución espacial de los estadios juveniles de peces arrecifales en el Parque Nacional Morrocoy, Venezuela, con énfasis en la identificación de zonas guardería. Realizado entre 2012 y 2014

**Number of records:** 279

**Data holder:** IZET-UCV

**Data host institution:** IZET-UCV

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/ujx72p

**Expected date of publication:**

#### **Poliquetos fondos arenosos de Arrecifes de Coral en el PN Archipiélago de Los Roques, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Biodiversidad de poliquetos asociados a los fondos arenosos calcáreos someros (0,5-2m de profundidad) de los arrecifes coralinos del Parque Nacional Archipiélago de Los Roques, Venezuela

**Number of records:** 382

**Data holder:** BIOMAC-UC

**Data host institution:** BIOMAC-UC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/hj69b4

**Expected date of publication:**

#### **Algunos Copépodos de la Fachada Atlántica de Venezuela**

**Dataset type:** Occurrences

**Dataset scope:** Abundancia y talla de los copépodos de 15 estaciones seleccionadas para una tesis de grado. Las muestras corresponden a parte del proyecto de "Estudio de la comunidad Zooplanctónica de la Fachada Atlántica de Venezuela" las cuales fueron obtenidas durante el macro proyecto "Estudio Geológico – Ambiental de la Fachada Atlántica" durante octubre 2001

**Number of records:** 255

**Data holder:** IZET-UCV

**Data host institution:** IZET-UCV

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/qwwn64

**Expected date of publication:**

#### **Distribución espacial y abundancia de la Familia Corycaeidae Dana, 1852 (Copepoda: Cyclopoida) en el Golfo de Cariaco, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Composición, distribución y abundancia de la Familia Corycaeidae (Copepoda: Cyclopoida), en el golfo de Cariaco, en la zona Pariche-Manicuare (zona norte) y 5 en la zona Cumaná - El Peñón (zona sur), estado Sucre.

**Number of records:** 149

**Data holder:** IOV-UDO

**Data host institution:** IOV-UDO

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/afw98k

**Expected date of publication:**

#### **ZOOPLANKTON de PLAYA COLORADA**

**Dataset type:** Sampling Event

**Dataset scope:** Composition and community structure of zooplankton in the coastal zone Arapito - Santa Fe, located in the Mochima National Park, Sucre state, Venezuela,

**Number of records:** 371

**Data holder:** IOV-UDO

**Data host institution:** IOV-UDO

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/tqc9yg

**Expected date of publication:**

#### **Poliquetos criptobentónicos en *Orbicella annularis* en arrecifes coralinos del Parque Nacional Archipiélago de Los Roques Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Evaluación de la densidad de poliquetos en 13 localidades del Parque Nacional Los Roques en Venezuela 2005-2007

**Number of records:** 386

**Data holder:** IZET-UCV

**Data host institution:** IZET-UCV

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/b9aw7u

**Expected date of publication:**

**Abundance of *Diadema antillarum* (Echinodermata: Echinoidea) on the coast of Venezuela: 1975-2003**

**Dataset type:** Sampling Event

**Dataset scope:** Evaluate the recent densities of certain *D. antillarum* populations along the Venezuelan coasts and compare the densities at the Parque Nacional Mochima before and after the mortality.

**Number of records:** 25

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/smkxqc

**Expected date of publication:**

**First record of *Alpheus platycheirus* Boone, 1927 (Crustacea, Alpheidae) on the northwest coast of Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** *Alpheus platycheirus* Boone, 1927 (Decapoda, Alpheidae) is a snapping shrimp widely distributed in the western Atlantic, from the Gulf of Mexico to eastern Brazil. This shrimp usually inhabits muddy marine bottoms; however, here we record for the first time *A. platycheirus* in association with *Thalassia testudinum* and *Halodule wrightii* meadows at an unusually shallow depth in northwest Venezuela. This record extends the known habitat and distribution of *A. platycheirus* in the Caribbean. Moreover, it represents an additional alpheid species for Venezuela, bringing the known total to 34 species.

**Number of records:** 2

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/ujcauf

**Expected date of publication:**

**Primer registro del cachalote enano *Kogia simus* (Owen, 1866) (Cetacea: kogiidae) en la playa Castillete, estado Zulia, noroeste del Golfo de Venezuela.**

**Dataset type:** Sampling Event

**Dataset scope:** Primer reporte de un cachalote enano para las costas del Golfo de Venezuela, específicamente en la Playa Castilletes ubicada en la Península de la Guajira Venezolana

**Number of records:** 1

**Data holder:** LUZ

**Data host institution:** LUZ

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/g5w4z4

**Expected date of publication:**

**Macroalgas en raíces de *Rhizophora mangle*. Yaima y Laguna de Boca de Caño, Península de Paraguaná, Falcón, Venezuela.**

**Dataset type:** Sampling Event

**Dataset scope:** Caracterización de la comunidad de macroalgas asociadas a las raíces de *R. mangle*, en la península de Paraguaná, en el noroccidente de Venezuela. Se seleccionaron dos localidades de estudio, la ensenada de Yaima, abierta al mar y cercana a una plataforma coralina, praderas marinas, buhedales y bancos de arena, y otra ubicada dentro de la laguna de Tiraya, una albufera hipersalina. 2004-2005

**Number of records:** 41

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/pn954r

**Expected date of publication:**

**Ictioplancton en cinco puntos del sector San Carlos del Lago de Maracaibo: composición distribución y abundancia**

**Dataset type:** Sampling Event

**Dataset scope:** Composición, distribución y abundancia del ictioplancton del Sector San Carlos, ubicado al noroeste de la Bahía El Tablazo, Lago de Maracaibo, Venezuela.

**Number of records:** 32

**Data holder:** LUZ

**Data host institution:** LUZ

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/p6efr8

**Expected date of publication:**

**Records of cephalopod paralarvae (Mollusca: Cephalopoda) in the Caribbean and Venezuelan Atlantic Ocean**

**Dataset type:** Sampling Event

**Dataset scope:** The dataset provides records of the composition, density and biomass of cephalopod planktonic paralarvae (Mollusca: Cephalopoda) in the Venezuelan Atlantic Ocean, Gulf of Venezuela and Aves Island areas. 2001-2009

**Number of records:** 38

**Data holder:** IZET-UCV

**Data host institution:** IZET-UCV

**% complete:** 100%

**Status update:** Completed

**DOI:** DOI10.15468/6kse8p

**Expected date of publication:**

**Diversidad de corales y especies asociadas en el ecosistema coralino de Adícora, Península de Paraguaná, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Este Dataset contiene información sobre las especies de corales y otras especies asociadas presentes en la barrera arrecifal de la localidad de Adícora, costa este de la Península de Paraguaná, Estado Falcón, Venezuela.

**Number of records:** 33

**Data holder:** UNEFM

**Data host institution:** UNEFM

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/asddp5

**Expected date of publication:**

**Composición y abundancia del plancton de la costa noreste de la bahía El Tablazo**

**Dataset type:** Sampling Event

**Dataset scope:** Este Dataset contiene información sobre la diversidad y abundancia del zooplancton en la cota noreste de la bahía el tablazo del Sistema de Maracaibo, Estado Zulia Venezuela.

**Number of records:** 89

**Data holder:** LUZ

**Data host institution:** LUZ

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/svrjds

**Expected date of publication:**

**Macroinvertebrados bentónicos en un transecto ubicado entre Punta Espada y Punta Macolla, Golfo de Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Dataset con resultados preliminares de un estudio de impacto ambiental realizado en el Golfo de Venezuela, entre Punta Espada y Punta Macolla, en cuatro estaciones de muestreo.

**Number of records:** 20

**Data holder:** LUZ

**Data host institution:** LUZ

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/ncdeb9

**Expected date of publication:**

**Peces presentes en praderas de fanerogamas en Boca Seca (PN Morrocoy) y Laguna de Yapascua (PN San Esteban) Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Dataset con las especies de peces presentes en praderas de fanerógamas en Boca Seca en el Parque Nacional Morrocoy, y en la Laguna de Yapascua en el Parque Nacional San Esteban, en la costa noroccidental de Venezuela.

**Number of records:** 39

**Data holder:** BIOMAC-UC

**Data host institution:** BIOMAC-UC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/k5sj3w

**Expected date of publication:**

**Macroinvertebrados bentónicos del muro de San Carlos- Zulia- Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Este conjunto de datos contiene variables geográficas de ocurrencia, ecológicas y ambientales para caracterizar las comunidades de macroinvertebrados del muro de San Carlos, estado Zulia, Venezuela.

**Number of records:** 20

**Data holder:** LUZ

**Data host institution:** LUZ

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/878pvc

**Expected date of publication:**

**Composition and abundance of decapod crustaceans in mixed seagrass meadows in the Paraguaná Peninsula, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Identification of the crustacean decapod species associated with mixed seagrass meadows in two zones (Adicora and Supi) of the eastern Paraguaná Peninsula (Falcón state, Venezuela).

**Number of records:** 34

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/geb937

**Expected date of publication:**

**Biodiversity of Crustacea Decapoda from La Blanquilla Island- Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Diversity, abundance, and body size of crustacean decapods from La Blanquilla Island- Venezuela

**Number of records:** 96

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/8knbc5

**Expected date of publication:**

**Diversity, abundance, and ecological features of swimming crabs (Brachyura; Portunidae) from Boca de Hueque, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Diversity, abundance, and ecological features of swimming crabs (Brachyura; Portunidae) from Boca de Hueque, Venezuela

**Number of records:** 8

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/v9ubpc

**Expected date of publication:**

**Diversity and geographic distribution of brachyuran crabs from the Callapidae family in Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Diversity and geographic distribution of brachyuran crabs from the Callapidae family in Venezuela

**Number of records:** 55

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/chzmsc

**Expected date of publication:**

### **POLIQUETOS HOLOPLANCTÓNICOS (ANNELIDA: POLYCHAETA) DE LA PLATAFORMA NORTE DE LA PENÍNSULA DE PARIÁ Y GOLFO DE PARIÁ, VENEZUELA**

**Dataset type:** Sampling Event

**Dataset scope:** Caracterización taxonómica de los poliquetos holoplanctónicos, recolectados en 17 estaciones, entre la plataforma norte de la Península de Paria y el Golfo de Paria, durante el mes de marzo de 2005.

**Number of records:** 26

**Data holder:** IOV-UDO

**Data host institution:** IOV-UDO

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/w27wcg

**Expected date of publication:**

### **Spatial distribution and population features of the decorator crab *Omalacantha bicornuta* (former *Microphrys bicornutus*) in Buchuaco- Falcon State- Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Spatial distribution and population features of the decorator crab *Omalacantha bicornuta* (former *Microphrys bicornutus*) in Buchuaco- Falcon State- Venezuela

**Number of records:** 15

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/qcfk96

**Expected date of publication:**

### **Population features of *Cardisoma guanhum* in Nueva Carenero- Miranda State- Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Population features of *Cardisoma guanhum* in Nueva Carenero- Miranda State- Venezuela

**Number of records:** 16

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/b3spzq

**Expected date of publication:**

### **Cnidarios Arrecifes Coralinos de Playa Mero, Cayo Sombrero y Peraza PN Morrocoy, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Caracterización de la comunidad bentónica asociada a tres arrecifes coralinos (Playa Mero, Cayo Sombrero y Cayo Peraza) en el Parque Nacional Morrocoy, estado Falcón, Venezuela

**Number of records:** 59

**Data holder:** BIOMAC-UC

**Data host institution:** BIOMAC-UC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/hwx7pz

**Expected date of publication:**

### **Abundancia y Distribución de *Temora turbinata* y *Temora stylifera* en el Parque Nacional Mochima, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Información cuantitativa sobre las especies de la familia Temoridae asociadas a la época de relajación (no surgencia) y a zonas costeras, en el Parque Nacional Mochima, estado Sucre, Venezuela

**Number of records:** 81



**Data holder:** IOV-UDO  
**Data host institution:** IOV-UDO  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/sp7ws7  
**Expected date of publication:**

**Geographical distribution and abundance of the land blue crab *Cardisoma guanhumi* (Brachyura, Gecarcinidae) in Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Geographical distribution and abundance of the land blue crab *Cardisoma guanhumi* (Brachyura, Gecarcinidae) in Venezuela  
**Number of records:** 34  
**Data holder:** IVIC  
**Data host institution:** IVIC  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/zrbpzj  
**Expected date of publication:**

**Community features of Swimming crabs (Portunidae) from Golfete de Cuare- Falcón- Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Community features of Swimming crabs (Portunidae) from Golfete de Cuare- Falcón- Venezuela  
**Number of records:** 124  
**Data holder:** IVIC  
**Data host institution:** IVIC  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/6mdxdk  
**Expected date of publication:**

**Macroalgas de la bahía de Macuro, estado Sucre, Venezuela. Estudio de línea base previo a la mejora del muelle de Macuro**

**Dataset type:** Sampling Event  
**Dataset scope:** Macroalgas de la bahía de Macuro, estado Sucre, Venezuela. Estudio de línea base previo a la mejora del muelle de Macuro.  
**Number of records:** 63  
**Data holder:** IOV-UDO  
**Data host institution:** IOV-UDO  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/trgus4  
**Expected date of publication:**

**Swimming crabs, Portunidae, from La Vela de Coro- Falcon-Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Biodiversity of swimming crabs, Portunidae family, from La Vela de Coro- Falcon- Venezuela  
**Number of records:** 42  
**Data holder:** IVIC  
**Data host institution:** IVIC  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/2ebnn3  
**Expected date of publication:**

**Diversity and ecological features of Majidae crabs from Morrocoy National Park - Venezuela**

**Dataset type:** Sampling Event  
**Dataset scope:** Abundance and diversity of Majidae crabs in the National Park Morrocoy, Falcón, Venezuela.  
**Number of records:** 12  
**Data holder:** IVIC  
**Data host institution:** IVIC  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/2a84xu  
**Expected date of publication:**

**Diversity of littoral penaeid shrimps in Falcon State, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Diversity of littoral penaeid shrimps in Falcon State, Venezuela

**Number of records:** 37

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/cfcygs

**Expected date of publication:**

**Crustaceos decápodos de islotes Caribe y Los Lobos, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Identificación de 35 especies de la fauna carcinológica decápoda de los islotes Caribe y Los Lobos, Venezuela

**Number of records:** 50

**Data holder:** ECAM-UDO

**Data host institution:** ECAM-UDO

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/7u7ffm

**Expected date of publication:**

**Cnidarios y Poríferos del Parque Nacional San Esteban, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Resultados de tres investigaciones realizadas en dos arrecifes coralinos de dos localidades del Parque Nacional San Esteban. En ellos se obtuvo información de las especies de cnidarios y esponjas en Isla Larga y Alcatraz. 2006-2008

**Number of records:** 117

**Data holder:** BIOMAC-UC

**Data host institution:** BIOMAC-UC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/cyaz5f

**Expected date of publication:**

**A new species of the Stenopodidean shrimp Genus Spongicola, representing the first record of the genus from the Atlantic Ocean**

**Dataset type:** Sampling Event

**Dataset scope:** A new species of the spongicolid genus Spongicola, *S. liosomatus* sp. nov. is described and illustrated based on three male specimens and one female specimen collected from off northern Blanquilla Island, Venezuela, Caribbean Sea representing the first species of the genus found in the Atlantic Ocean.

**Number of records:** 4

**Data holder:** Museo Marino de Margarita

**Data host institution:** Museo Marino de Margarita

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/t9ycj2

**Expected date of publication:**

**Peces Criptobentónicos en los arrecifes coralinos del PN Archipiélago de Los Roques Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Primer aporte al conocimiento de comunidades de peces criptobentónicos en los arrecifes del Parque Nacional Archipiélago de Los Roques, Venezuela. 2005-2007

**Number of records:** 89

**Data holder:** BIOMAC-UC

**Data host institution:** BIOMAC-UC

**% complete:** 100%

**Status update:** Completed

**DOI:** 10.15468/8bjjpp

**Expected date of publication:**

**Moluscos Arrecifes Coralinos San Esteban Carabobo Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** Caracterización de los moluscos asociados a los arrecifes coralinos de Isla larga y Alcatraz en el Parque Nacional San Esteban, Carabobo, Venezuela entre 2006 y 2009

**Number of records:** 88  
**Data holder:** BIOMAC-UC  
**Data host institution:** BIOMAC-UC  
**% complete:** 100%  
**Status update:** Completed  
**DOI:** 10.15468/g7wyz  
**Expected date of publication:**

#### **The Molluscs of Nueva Esparta**

**Dataset type:** Sampling Event  
**Dataset scope:** This dataset will contain occurrence and extended measurements or facts, when available, of records of species from the phylum mollusca, collected in the Nueva Esparta State between 1970 and 2010.  
**Number of records:** 200  
**Data holder:** ECAM-UDO  
**Data host institution:** ECAM-UDO  
**% complete:** 0%  
**Status update:** Undigitized  
**DOI:**  
**Expected date of publication:** 2023-02-28

#### **Ichthyoplankton of the northeastern Venezuelan coast**

**Dataset type:** Sampling Event  
**Dataset scope:** This dataset will contain occurrence and extended measurements or facts, when available, of records of species of ichthyoplankton collected in the northeastern coast of Venezuela.  
**Number of records:** 300  
**Data holder:** IOV-UDO  
**Data host institution:** IOV-UDO  
**% complete:** 0%  
**Status update:** Undigitized  
**DOI:**  
**Expected date of publication:**

#### **Phytoplankton of the Northeastern Venezuelan coast**

**Dataset type:** Occurrences  
**Dataset scope:** This dataset will contain occurrence and extended measurements or facts, when available, of records of phytoplanktonic species collected in the northeastern coast of Venezuela.  
**Number of records:** 500  
**Data holder:** ECAM-UDO  
**Data host institution:** ECAM-UDO  
**% complete:** 0%  
**Status update:** Undigitized  
**DOI:**  
**Expected date of publication:**

#### **Zooplankton of the Northeastern Venezuelan coast/ Zooplancton de la costa Nororiental de Venezuela**

**Dataset type:** Occurrences  
**Dataset scope:** This dataset will contain occurrence and extended measurements or facts, when available, of records of mero and holoplanktonic species collected in the northeastern coast of Venezuela.  
**Number of records:** 300  
**Data holder:** IOV-UDO  
**Data host institution:** IOV-UDO  
**% complete:** 0%  
**Status update:** Undigitized  
**DOI:**  
**Expected date of publication:**

#### **Seagrass-associated molluscs from the northeastern coast of Venezuela**

**Dataset type:** Occurrences  
**Dataset scope:** This dataset will contain occurrence and extended measurements or facts, when available, of records of species of the phylum mollusca sampled/observed within seagrass patches/meadows.  
**Number of records:** 100  
**Data holder:** ECAM-UDO  
**Data host institution:** ECAM-UDO  
**% complete:** 0%  
**Status update:** Undigitized

**DOI:**

**Expected date of publication:**

**Crustacea Decapoda of Zulia state, Venezuela**

**Dataset type:** Occurrences

**Dataset scope:** This dataset will contain occurrence records of species of decapods sampled/observed in different habitats of Zulia State between 1960 and 1980

**Number of records:** 150

**Data holder:** LUZ

**Data host institution:** LUZ

**% complete:** 0%

**Status update:** Undigitized

**DOI:**

**Expected date of publication:**

**Local distribution and abundance of swimming crabs (*Callinectes* spp. and *Arenaeus cribrarius*) in Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** This dataset will contain occurrence records with abundance data associated with the research articles: Carmona-Suarez, C. A., & Conde, J. E. 2002. Fishery Bulletin, 100(1): 11-25. and Carmona-Suárez, C. A. 2009. Nauplius, 17(1): 19-27.

**Number of records:** 500

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 0%

**Status update:** Undigitized

**DOI:**

**Expected date of publication:**

**Spatial distribution, density, and relative growth of *Microphrys bicornutus* (Latreille, 1826) (*Brachyura*: *Majidae*) in five biotopes in a *Thalassia* complex**

**Dataset type:** Sampling Event

**Dataset scope:** This dataset will contain occurrence records with abundance data associated with the research article: Carmona-Suárez, C. A. 2007. . Scientia Marina 71(1): 5-14.

**Number of records:** 1,357

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 0%

**Status update:** Undigitized

**DOI:**

**Expected date of publication:**

**Differences between *Mithraculus* spp. in *Thalassia* beds within Morrocoy National Park**

**Dataset type:** Sampling Event

**Dataset scope:** Differences between *Mithraculus* spp. in *Thalassia* beds within Morrocoy National Park

**Number of records:** 1,076

**Data holder:** IVIC

**Data host institution:** IVIC

**% complete:** 0%

**Status update:** Undigitized

**DOI:**

**Expected date of publication:**

**Benthic coral reefs assemblages in Los Roques National Park**

**Dataset type:** Sampling Event

**Dataset scope:** This dataset will contain occurrence records with associated information on relative abundance of the benthic composition sampled by line transects in seven reefs of Los Roques National Park between 2014 and 2015

**Number of records:** 150

**Data holder:** INTECMAR-USB

**Data host institution:** INTECMAR-USB

**% complete:** 0%

**Status update:** Undigitized

**DOI:**

**Expected date of publication:** 2023-02-28

**Reef fish assemblages in Los Roques National Park**

**Dataset type:** Sampling Event

**Dataset scope:** This dataset will contain occurrence records with abundance data associated with the research article: Agudo-Adriani, E. A., Cappelletto, J., Cavada-Blanco, F., & Cróquer, A. (2019). *Frontiers in Marine Science*, 6, 690.

**Number of records:** 60

**Data holder:** INTECMAR-USB

**Data host institution:** INTECMAR-USB

**% complete:** 0%

**Status update:** Undigitized

**DOI:**

**Expected date of publication:** 2023-02-28

#### **Size structure and abundance of the threatened pillar coral *Dendrogyra cylindrus* in Los Roques National Park**

**Dataset type:** Sampling Event

**Dataset scope:** This dataset will contain occurrence records with abundance data associated with the research article: Cavada-Blanco, F., Cappelletto, J., Agudo-Adriani, E., Martinez, S., Croquer, A., & Rodriguez, J. P. (2020). Status of the pillar coral *Dendrogyra cylindrus* in Los Roques National Park

**Number of records:** 90

**Data holder:** INTECMAR-USB

**Data host institution:** INTECMAR-USB

**% complete:** 0%

**Status update:** Undigitized

**DOI:**

**Expected date of publication:** 2023-02-28

#### **Microphytobenthos from the mucopolysaccharide layer of *Scleractinia* corals in Los Frailes Archipelago, Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** This dataset will contain occurrence records with abundance data of benthic microalgae sampled from the mucus layer of *Scleractinia* corals in the Bay of Puerto real, Archipelago Los Frailes between June and December 2004

**Number of records:** 450

**Data holder:** INTECMAR-USB

**Data host institution:** INTECMAR-USB

**% complete:** 0%

**Status update:** Undigitized

**DOI:**

**Expected date of publication:** 2023-02-28

#### **Microalgae associated with reef-building corals in upwelling and non-upwelling reef patches**

**Dataset type:** Sampling Event

**Dataset scope:** Microalgae associated with reef-building corals in upwelling and non-upwelling reef patches

**Number of records:** 210

**Data holder:** INTECMAR-USB

**Data host institution:** INTECMAR-USB

**% complete:** 100%

**Status update:** Fully digitized

**DOI:**

**Expected date of publication:**

#### **Mollusks and polychaeta in seagrass beds of San Esteban National Park, Venezuela**

**Dataset type:** Occurrences

**Dataset scope:** This dataset will contain occurrence records of species from the phylum mollusca and class polychaeta sampled from *Thalassia* beds in San Esteban National Park

**Number of records:** 150

**Data holder:** BIOMAC-UC

**Data host institution:** BIOMAC-UC

**% complete:** 100%

**Status update:** Fully digitized

**DOI:**

**Expected date of publication:**

#### **The Coral reefs of San Esteban National Park, Venezuela**

**Dataset type:** Occurrences

**Dataset scope:** This dataset will contain occurrence records of species from several taxa sampled during benthic surveys in San Esteban National Park

**Number of records:** 60

**Data holder:** BIOMAC-UC

**Data host institution:** BIOMAC-UC

**% complete:** 100%

**Status update:** Fully digitized

**DOI:**

**Expected date of publication:**

### **The marine fish of Venezuela**

**Dataset type:** Occurrences

**Dataset scope:** This dataset will contain occurrence records of ray-finned fish and chondrichthyes sampled in scientific fishing and landing surveys as well as specimens in the collection of Museo de Ciencias Naturales de La Salle (FLASA)

**Number of records:** 1,500

**Data holder:** FLASA

**Data host institution:** FLASA

**% complete:** 0%

**Status update:** Undigitized

**DOI:**

**Expected date of publication:**

### **Polychaeta from the Gulf of Venezuela**

**Dataset type:** Sampling Event

**Dataset scope:** This dataset will contain records of species from the class polychaeta identified in samples taken from the Gulf of Venezuela

**Number of records:** 3,600

**Data holder:** INTECMAR-USB

**Data host institution:** INTECMAR-USB

**% complete:** 50%

**Status update:** Partially digitized

**DOI:**

**Expected date of publication:**

### **Agenda Morrocoy (corales y manglares)**

**Dataset type:** Occurrences

**Dataset scope:** This dataset will contain occurrence of marine flora and corals species within the National Park Morrocoy.

**Number of records:** 2,500

**Data holder:** IZET-UCV

**Data host institution:** IZET-UCV

**% complete:** 50%

**Status update:** Partially digitized

**DOI:**

**Expected date of publication:**

## **Other deliverables**

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### **Historic Ocean Information from Venezuela**

**Description:** Digitised theses, reports and historic issues of national scientific journals, uploaded to open access databases and repositories.

**% complete:** 10%

**Status update:** Inventorying the literature to be digitized is pending as universities in Venezuela have not yet fully reopened due to Covid and other matters. The Project expected this could be completed by April 2022, but this it has not been possible as expected. Participants have advanced scanning thesis, reports and other printed materials that are not available in digital format to proceed with this objective uploading them in national open access repositories. An alternative to national organizations and individuals without the infrastructure to support their own is also being searched for.

**Sources of verification:** [www.iov-udo.com](http://www.iov-udo.com) [www.saber.ucv.ve](http://www.saber.ucv.ve)

## **Events**

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### **1ª reunión virtual de inducción a OBIS para los Coordinadores Institucionales del Proyecto GBIF-CaribeSur**

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**Dates:** 2021-08-18 - 2022-09-18

**Organizing institution:** CaribeSur

**Country:** Venezuela

**Number of participants:** 13

**Comments:**

**Website or sources of verification:** <https://youtu.be/4P4AiT7PSHk>

## Events

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### HelpDesk OBIS CaribeSur 12Nov2021

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**Dates:** 2021-11-12 - 2021-11-12

**Organizing institution:** CaribeSur

**Country:** Venezuela

**Number of participants:** 13

**Comments:**

**Website or sources of verification:** <https://youtu.be/p7G05MDkgxQ>

## Events

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### HelpDesk OBIS CaribeSur 24Nov2021

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**Dates:** 2021-11-24 - 2021-11-24

**Organizing institution:** CaribeSur

**Country:** Venezuela

**Number of participants:** 13

**Comments:**

**Website or sources of verification:** <https://youtu.be/kDC8AZwq9Ow>

## Events

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### Taller CaribeSur de Introducción a la Movilización de Datos sobre Biodiversidad - Sesión 10 Dic 2021

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**Dates:** 2021-12-10 - 2022-09-10

**Organizing institution:** CaribeSur

**Country:** Venezuela

**Number of participants:** 15

**Comments:**

**Website or sources of verification:** <https://youtu.be/jZW8Xvoquu4>

## Events

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### Taller CaribeSur de Introducción a la Movilización de Datos sobre Biodiversidad - Sesión 13Dic2021

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**Dates:** 2021-12-13 - 2021-12-13

**Organizing institution:** CaribeSur

**Country:** Venezuela

**Number of participants:** 21

**Comments:**

**Website or sources of verification:** [https://youtu.be/KOvUabbL\\_Is](https://youtu.be/KOvUabbL_Is)

## Events

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### Taller CaribeSur de Introducción a la Movilización de Datos sobre Biodiversidad - Sesión 06Dic2021

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**Dates:** 2021-12-06 - 2021-12-06

**Organizing institution:** CaribeSur

**Country:** Venezuela

**Number of participants:** 20

**Comments:**

**Website or sources of verification:** [https://youtu.be/g\\_W1AJCVVGI](https://youtu.be/g_W1AJCVVGI)

## Events

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### Help Desk OBIS CaribeSur 20Dic2021

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**Dates:** 2021-12-20 - 2021-12-20

**Organizing institution:** CaribeSur



**Country:** Venezuela  
**Number of participants:** 13  
**Comments:**  
**Website or sources of verification:** <https://youtu.be/ckqwBAfGsu0>

## Events

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### HelpDesk OBIS CaribeSur 3Mar2022 parte 1

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**Dates:** 2021-03-03 - 2021-03-03  
**Organizing institution:** CaribeSur  
**Country:** Venezuela  
**Number of participants:** 15  
**Comments:** Restricted access to Project's participants  
**Website or sources of verification:** [https://youtu.be/l\\_1-58M4ZO4](https://youtu.be/l_1-58M4ZO4)

## Events

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### HelpDesk OBIS CaribeSur 3Mar2022 parte 2

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**Dates:** 2022-03-03 - 2022-03-03  
**Organizing institution:** CaribeSur  
**Country:** Venezuela  
**Number of participants:** 15  
**Comments:** Restricted access to Project's participants  
**Website or sources of verification:** <https://youtu.be/TnlyyevJmmY>

## Communications and visibility

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Communication is crucial to the Project and its results need to be shared not only with stakeholders but also with the marine science community and general public.

Main communications and visibility of the Project's progress and news have been shared by means of CaribeSur's Blog

<http://caribesur.blogspot.com> and social media, mainly through CaribeSur's Twitter @CaribeSurOrg and Instagram @caribesurorg accounts.

Links to open access events have been added to the Project's page and are available at CaribeSur's YouTube channel [www.youtube.com/user/caribesurorg](http://www.youtube.com/user/caribesurorg) with the added capacity of english subtitles.

Capacity building videos and recorded training events are available at CaribeSur's YouTube channel so future trainees and new team members can have access to this audiovisual material. NGO Provita as partner organization of CaribeSur has also benefited from the training events organized by CaribeSur.

Micro-videos showcasing team members and activities of the project have been produced and shared through social media. Links to these audiovisual materials are also available at CaribeSur's YouTube channel.

Videos:

- La importancia del resguardo digital de datos de biodiversidad - CaribeSur
- La Importancia de las generaciones de relevo - CaribeSur
- Proyecto GBIF-CaribeSur Dres. Yusneyi Carballo y Santiago Gomez, Facebook Ciencias UCV
- El Proyecto GBIF-CaribeSur INTRODUCCION
- Rescate de la Data sobre Biodiversidad Marina en Venezuela 2021-2022 (Proyecto FCS Digital)
- Proyecto GBIF-CaribeSur Dra. Brightdoom Márquez, Coordinadora Instituto Oceanográfico de Venezuela
- Proyecto GBIF-CaribeSur Dra. Carmen Teresa Fernández, Coordinadora Universidad de Carabobo
- Proyecto GBIF-CaribeSur Dra. Jeannette Pérez, Coordinadora Universidad Central de Venezuela
- Proyecto GBIF-CaribeSur Dra. Carolina Peralta, Coordinadora Universidad Simón Bolívar
- Proyecto GBIF-CaribeSur Dr. Carlos Carmona, Coordinador Instituto Venezolano de Investigaciones Científicas, Universidad del Zulia y - Universidad Nacional Experimental Francisco de Miranda
- Proyecto GBIF-CaribeSur Dr. Carlos Lira, Coordinador Escuela de Ciencias Aplicadas del Mar, Universidad de Oriente
- Proyecto GBIF-CaribeSur MSc. Eduardo Klein, Coordinador OBISCaribe- USB

Documents:

Literature-based occurrences of marine species in Venezuela (Data paper submitted to the Biodiversity Data Journal for publication)

## Monitoring and evaluation

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## Final Evaluation

As previously referred, overall, the Project has been very successful, the commitment of the team members has rendered excellent results, considering circumstances like the Covid pandemic and the complex humanitarian crisis Venezuela is going through which has resulted in a critical or to be more precise, catastrophic situation for our universities and research institutions, specially for the marine sciences sector. On the other hand, the team members, researchers and students have made the difference in the Project's implementation, displaying professionalism and personal engagement that illustrate the high standard and preparedness of Venezuelan professionals in the area. National institutions in marine sciences have been producing and publishing marine research for over 7 decades, even prior to the founding of the Instituto Oceanográfico de Venezuela in 1959. During the Project's implementation the national coordinator kept constant meetings with the institutional coordinators and it is important to highlight the positive feedback received from participants, enabling a very cooperative working dynamic among Team members and Project's allies, which has resulted in the establishing of a national network group for data mobilisation of marine biodiversity records that will continue with post-project activities. Our Project partners from Provita have been in contact throughout the entire Project period and shared experiences have benefited both initiatives. Support from the GBIF Secretariat has been productive and communication with GBIF's Regional Consultant has been fluid and most helpful. Availability to resources such as updated computers and internet access as well as the proper reactivation of universities and other institutions are crucial to data mobilization and capacity strengthening in this area. Availability of funds to counterbalance the low incomes of researchers in Venezuela is also crucial. In a way, the rescuing of the knowledge base of Venezuela's marine biodiversity has been also the rescuing of a special group of professionals, our researchers, who while obtaining new capacities and acquiring specialized knowledge in data mobilization have improved their productivity and enhanced their accomplishments through collaboration and team work with help from the Project.

## Best Practices and Lessons learned

In resume, collaboration and team work is the best practice and lesson learned. The interdisciplinary and interinstitutional team formed during the "Rescuing the knowledge base of Venezuela's marine biodiversity" Project has established a highly motivated working group that intends to keep on working and training other colleagues and students in data mobilization.

## Post Project activities

Further work is necessary. The knowledge base of Venezuela's marine biodiversity is still at large and much work is needed. During the phase of inventorying the non-digitized biodiversity data the team had a clear idea of the project's positive impact, after the Project it's also evident the need to raise awareness on the benefits of adopting Biodiversity Information Standards in the country. And while efforts to convene a formal participation of Venezuela in the GBIF network did not succeed at the moment, University departments, program coordinators and researchers involved in the Project are convinced that OBIS and GBIF are our best alternatives and therefore aware of the task needed to summon the National Office of Biological Diversity's commitment to preserve all biodiversity information produced by national researchers and students, formalizing Venezuela as a member of the GBIF network. Continuity of online workshops to promote adoption of Darwin core standards and use of GBIF/OBIS is one of the most effective post-project activities that will be carried out by the working group under CaribeSur's coordination.

## Sustainability

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### Sustainability Plans

The Project planned to host all digitized information in open access online repositories maintained by international organizations. AquaDocs under UNESCO's Intergovernmental Oceanographic Commission has been contacted as an option to hosting data on a local digital repository, considering the reduced capacities of national institutions. However, thanks to the Project, the repository of the Instituto Oceanográfico de Venezuela has benefited by almost 4 decades of the bulletin's numbers, a total of 48 that were not in digital format, and these will be available through the IOV Bulletin webpage [www.iov-udo.com](http://www.iov-udo.com) An additional 49 thesis and reports ranging from 1961 to 2009 are yet to be uploaded and will soon be available in digitized format in national open repositories like UCV's open repository [www.saber.ucv.ve](http://www.saber.ucv.ve) and others.

The working group is enthusiastic to continue promoting the adoption of DarwinCore standards,

strengthening national capacities in data mobilization, expanding and improving the geographic coverage of marine biodiversity data accomplished with this project beyond 2022.

### Impact of COVID-19 pandemic on project implementation

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Perhaps a most striking impact for the development of the Project was the passing in 2021 due to COVID of our collaborator, Dr. Baumar Marín R.I.P., whose contribution as researcher and institutional coordinator of the Oceanographic Institute of Venezuela, made him a distinguished protagonist of our work team. His death had a most significant impact on the Project, but we are sure he can be proud of the outcome, wherever he is now.

The Project also lost another collaborator in 2021, Dr. Carlos Rivero-Blanco, a distinguished ecologist and a member of the country's focal point of IUCN's World Commission on Protected Areas. Due to the Covid pandemic and the critical situation of Venezuelan national universities and research institutes, most libraries have not been accesible and remained closed to the public during the Project's period, limiting the team members capacity to obtain and scan printed thesis, reports and bulletins containing data, still many researchers have provided personal copies to be scanned and an interesting array of information from past decades has been gradually increasing in number. Future work is to be continued with the scanners provided by the Project to the institutions involved. Uploading the digitized information to an open access repository is a pending activity.

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GBIF leads the Biodiversity Information for Development (BID), a programme funded by the European Union. The programme provides supplementary support for activities addressing the needs of regional researchers and policymakers through mobilization and use of biodiversity data.

