

Data mobilization for key entomological groups across the Caribbean Region of Colombia

Programme:BID

Project ID: BID-CA2020-045-NAC

Project lead organization:Universidad del Magdalena, Vicerrectoría de Investigación

Project implementation period:10/7/2021 - 30/6/2023

Report approved: 14/6/2022

Narrative Midterm report

Executive Summary

The project activities began with a digitalization workshop given to the staff in charge of this activity. In this same workshop, the protocols and formats for capturing the records to be digitized were standardized. Then, we carried out a collection specimens photography workshop and the digitization of records began. To date, 9356 records have been digitized, corresponding to 76% of the total goal (12290 for all the collections and datasets). Thus, although only one data set (Coleoptera from the Universidad del Magdalena) has been published, 8 data sets have started the review process by the GBIF advisor Leonardo Buitrago, and are close to being published (Lepidoptera, Hemiptera, Diptera, Odonata, and Hymenoptera from Universidad del Magdalena, and Diptera, Odonata, and Lepidoptera from Universidad CES).

Progress against milestones

Has your project published at least one dataset through GBIF.org?: Yes

Dataset published:

Dataset	DOI

Has at least one member of your project team received certification following the BID capacity enhancement workshop?: Yes

Name of the workshop participant:Larry Jiménez-Ferbans

Certification obtained: Basic Badge

Report on Activities

Activity progress summary

Of the nine activities proposed in the project, six correspond to activities that should have finished or at least started by May 2022. Four of these six have been completed on time (1. Specimen organization, preparation and cataloging; 2. Establishing and implementation of standards and workflows; 3. Training of data entry personnel; and 4. Training in specimen imaging). These activities allowed the digitization of records at a good speed, which has resulted in the fact that more than 76% of the records established as a goal have now been digitized.

With respect to the other two activities (to be completed), the status of each one is outlined below.

-Set up of databasing system (Symbiota) and training of collections managers (2021-07-15

to 2022-01-15). Currently, the Entomological Collection of the Universidad del Magdalena has its page on ecdysis, the Symbiota portal for arthropods (<https://serv.biokic.asu.edu/ecdysis/collections/misc/collprofiles.php?collid=27>). But the other participating institutions still do not have a page. Initially, the project contemplated publishing the data in Symbiota (i.e. ecdysis), to later be used by SiB-Colombia (representative of the GBIF node for Colombia). However, as a result of the meetings with representatives of SiB-Colombia (Dairo Escobar and Camila Zapata), representatives of GBIF (Leonardo Buitrago) and collection curators, the decision was reached that the workflow should first contemplate the publication of data through the ITP of the SiB-Colombia and after the data is published in GBIF, these are taken to feed the future portals of each collection in Ecdysis (see image of the workflow in evidence). Additionally, as a result of the difficulties of maintaining a stable internet connection, initially there were problems with the digitization of records directly on the Ecdysis platform. For all these reasons, we decided to concentrate the digitization tasks on the DarwinDore format handled by SiBColombia, completing it in Excel spreadsheets. By the second half of 2022, it is expected to have the portals in Ecdysis for the collections and to start the migration of data from GBIF.

-Digitization of local collections: data and imaging (2021-08-15 to 2022-09-16). The digitization of collections housed in universities in the Colombian Caribbean (here called local collections) has advanced at a very good pace. Thus, with four months remaining to meet the deadline for this activity, 100% of the records proposed for Coleoptera, Lepidoptera, Hymenoptera, Hemiptera, Diptera and Odonata have been digitized. To complete the digitization goal, only 50 records of Ephemeroptera remain to be digitized at the Universidad del Magdalena (Table 1, Report Attachments).

Activities to start, according to the schedule

According to the schedule, the activity *Digitization of Caribbean specimens at national collections* should have started on May 15, 2022. However, the digitization of the national collections began in February 2022. Thus, the digitization goal has practically been met for the Universidad CES and Universidad Javeriana (Table 1, Report Attachments). We expect to finish this activity on time next January.

Completed activities

Activity: Specimen organization, preparation and cataloging

Description: Many specimens of the Caribbean region of Colombia are stored as bulk samples in the different collections. This material will be processed to extract selected groups and prepared for databasing.

Start Date - End Date: 15/7/2021 - 15/12/2021

Verification Sources: Photographies showing the the organization and initial separation of the specimens

Activity: Establishing and implementation of standards and workflows

Description: Workflows will be implemented for specimen processing, labeling, barcoding, databasing and imaging. Each process will be documented and become standard practice for the collections.

Start Date - End Date: 15/8/2021 - 15/12/2021

Verification Sources: Screen capture showing meetings between curators, digitizers, and Leonardo Buitrago (from GBIF)

Activity: Training of data entry personnel

Description: Undergraduate students will be trained for entering data into the Symbiota system. This activity will be carried out at least once per semester at each partner institution.

Start Date - End Date: 21/9/2021 - 17/5/2022

Verification Sources: Photographies of the workshop invitations (conferences). Screen capture showing the conference and the number of attendees

Report on Deliverables

Deliverables progress summary

We proposed to delivery 36 datasets. The progress for each set by institution is described below.

Colección Universidad del Magdalena

In this collection we proposed to publish 7 datasets:

Coleoptera: this dataset is already published

Hymenoptera: 561 records were digitized (450 was the goal). Currently this set is on the ITP mode,

waiting for the approval of Leonardo Buitrago.

Lepidoptera: 422 records digitized (150 was the goal). Currently this set is on the ITP mode, it already gone through two rounds of review by Leonardo. We expect to set this set for publication at the beginning of June.

Hemiptera: 217 records were digitized (200 was the goal). Currently this set is on the ITP mode, waiting for the approval of Leonardo Buitrago.

Ephemeroptera: 50 records have been digitized (100 was the goal). We expect to reach the records goal at the beginning of June.

Diptera: 2000 records have been digitized (2000 was the goal). Currently this set is on the ITP mode, waiting for the approval of Leonardo Buitrago.

Odonata: 133 records have been digitized (100 was the goal). Currently this set is on the ITP mode, waiting for the approval of Leonardo Buitrago.

Colección Universidad del Atlántico

All the datasets for this institution are waiting for an initial validation by Leonardo Buitrago

Hymenoptera: 300 records have been digitized (300 was the goal).

Coleoptera: 500 records have been digitized (500 was the goal).

Lepidoptera: 200 records have been digitized (200 was the goal).

Hemiptera: 150 records have been digitized (150 was the goal).

Collection Universidad de Sucre

All the datasets for this institution are waiting for an initial validation by Leonardo Buitrago.

Coleoptera: 681 records have been digitized (400 was the goal).

Lepidoptera: 1500 records have been digitized (2122 was the goal).

Collections Universidad Javeriana

All the datasets for this institution are under a final validation before the submission to the ITP test mode to be validated by Leonardo Buitrago.

Hymenoptera: 149 records have been digitized (150 was the goal).

Coleoptera: 200 records have been digitized (199 was the goal).

Lepidoptera: 100 records have been digitized (100 was the goal).

Hemiptera: 156 records have been digitized (3000 was the goal).

Collection Universidad CES

The datasets for Diptera, Odonata and Lepidoptera for this institution are waiting for a final validation by Leonardo Buitrago.

Collection Instituto Alexande von Humboldt

Digitization in these institutions started in May 2022. Consequently, any data set has reached the goal.

Collection Universidad de Antioquia and Collection Universidad Nacional

Digitization in these institutions will begin in June and July 2022

Progress towards deliverables

Dataset deliverables

Coleópteros de la Colección Entomológica del Centro de Colecciones Científicas de la Universidad del Magdalena

Dataset type: Occurrences

Dataset scope: This dataset contains records for beetles collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad del Magdalena.

Number of records: 2,016

Data holder: Universidad del Magdalena

Data host institution: Universidad del Magdalena

% complete: 100%

Status update: Published

DOI: <https://doi.org/10.15472/rya8v8>

Expected date of publication:

Hymenoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for ants, wasps and bees collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad del Magdalena

Number of records: 561

Data holder: Universidad del Magdalena

Data host institution: Universidad del Magdalena

% complete: 100%

Status update: 561 were digitized (450 was the goal). Now the dataset is in the ITP Test Mode to be reviewed by Leonardo Buitrago

DOI:

Expected date of publication: 2022-07-15

Hymenoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for ants, wasps and bees collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad del Atlántico.

Number of records: 300

Data holder: Universidad del Atlántico

Data host institution: Universidad del Atlántico

% complete: 100%

Status update: The goal was reached and the data set is under a final validation prior to its submission to the ITP test mode.

DOI:

Expected date of publication: 2022-07-28

Hymenoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for ants, wasps and bees collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad Nacional de Colombia

Number of records: 700

Data holder: Universidad Nacional de Colombia

Data host institution: Universidad Nacional de Colombia

% complete: 0%

Status update: The digitization of this collection will start in June 2022.

DOI:

Expected date of publication: 2022-11-30

Hymenoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for ants, wasps and bees collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad Javeriana

Number of records: 149

Data holder: Universidad Javeriana

Data host institution: Universidad Javeriana

% complete: 100%

Status update: The goal was reached and the data set is under a final validation prior to its submission to the ITP test mode.

DOI:

Expected date of publication: 2022-08-30

Hymenoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for ants, wasps and bees collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Instituto Alexander von Humboldt.

Number of records: 400

Data holder: Instituto Alexander von Humboldt

Data host institution: Instituto Alexander von Humboldt

% complete: 10%

Status update: The digitization of this collection started in May 2022.

DOI:

Expected date of publication: 2022-11-30

Coleoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for beetles collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad de Sucre.

Number of records: 681

Data holder: Universidad de Sucre

Data host institution: Universidad de Sucre

% complete: 100%

Status update: The goal was reached and the data set is under a final validation prior to its submission to the ITP test mode.

DOI:

Expected date of publication: 2022-07-28

Coleoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: his dataset will contain records for beetles collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad del Atlántico

Number of records: 500

Data holder: Universidad del Atlántico

Data host institution: Universidad del Atlántico

% complete: 100%

Status update: The goal was reached and the data set is under a final validation prior to its submission to the ITP test mode.

DOI:

Expected date of publication: 2022-07-27

Coleoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for beetles collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad Nacional de Colombia

Number of records: 600

Data holder: Universidad Nacional de Colombia

Data host institution: Universidad Nacional de Colombia

% complete: 0%

Status update: The digitization of this collection will start in June 2022.

DOI:

Expected date of publication: 2022-11-30

Coleoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for beetles collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad Javeriana.

Number of records: 199

Data holder: Universidad Javeriana

Data host institution: Universidad Javeriana

% complete: 100%

Status update: The goal was reached and the data set is under a final validation prior to its submission to the ITP test mode.

DOI:

Expected date of publication: 2022-08-30

Coleoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: his dataset will contain records for beetles collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Instituto Alexander von Humboldt.

Number of records: 700

Data holder: Instituto Alexander von Humboldt

Data host institution: Instituto Alexander von Humboldt

% complete: 0%

Status update: The digitization of this collection started in May 2022.

DOI:

Expected date of publication: 2022-11-30

Lepidoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for butterflies and moths collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad del Magdalena

Number of records: 422

Data holder: Universidad del Magdalena

Data host institution: Universidad del Magdalena

% complete: 100%

Status update: The goal was reached and the data set is under a final validation in the ITP test mode

by Leonardo Buitrago

DOI:

Expected date of publication: 2022-06-28

Lepidoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for butterflies and moths collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad de Sucre.

Number of records: 2,122

Data holder: Universidad de Sucre

Data host institution: Universidad de Sucre

% complete: 100%

Status update: The goal was reached and the data set is under a final validation prior to its submission to the ITP test mode.

DOI:

Expected date of publication: 2022-08-31

Lepidoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for butterflies and moths collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad del Atlántico

Number of records: 200

Data holder: Universidad del Atlántico

Data host institution: Universidad del Atlántico

% complete: 100%

Status update: The goal was reached and the data set is under a final validation prior to its submission to the ITP test mode.

DOI:

Expected date of publication: 2022-08-31

Lepidoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for butterflies and moths collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad Javeriana

Number of records: 100

Data holder: Universidad Javeriana

Data host institution: Universidad Javeriana

% complete: 100%

Status update: The goal was reached and the data set is under a final validation prior to its submission to the ITP test mode.

DOI:

Expected date of publication: 2022-08-30

Lepidoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for butterflies and moths collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Instituto Alexander von Humboldt

Number of records: 250

Data holder: Instituto Alexander von Humboldt

Data host institution: Instituto Alexander von Humboldt

% complete: 0%

Status update: The digitization of this collection started in May 2022.

DOI:

Expected date of publication: 2022-11-30

Hemiptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for true bugs collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad del Magdalena

Number of records: 217

Data holder: Universidad del Magdalena

Data host institution: Universidad del Magdalena

% complete: 100%

Status update: The goal was reached and the data set is under a final validation in the ITP test mode

by Leonardo Buitrago

DOI:

Expected date of publication: 2022-06-28

Hemiptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for true bugs collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad del Atlántico

Number of records: 150

Data holder: Universidad del Atlántico

Data host institution: Universidad del Atlántico

% complete: 100%

Status update: The goal was reached and the data set is under a final validation prior to its submission to the ITP test mode.

DOI:

Expected date of publication: 2022-08-31

Hemiptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: his dataset will contain records for true bugs collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad Nacional de Colombia

Number of records: 200

Data holder: Universidad Nacional de Colombia

Data host institution: Universidad Nacional de Colombia

% complete: 0%

Status update: The digitization of this collection will start in June 2022.

DOI:

Expected date of publication: 2022-11-30

Hemiptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for true bugs collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad Javeriana

Number of records: 300

Data holder: Universidad Javeriana

Data host institution: Universidad Javeriana

% complete: 51%

Status update: This taxonomic group is under digitization.

DOI:

Expected date of publication: 2023-01-31

Hemiptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for true bugs collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Instituto Alexander von Humboldt

Number of records: 200

Data holder: Instituto Alexander von Humboldt

Data host institution: Instituto Alexander von Humboldt

% complete: 0%

Status update: The digitization of this collection started in May 2022.

DOI:

Expected date of publication: 2022-11-30

Ephemeroptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for Ephemeroptera collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad del Magdalena.

Number of records: 54

Data holder: Universidad del Magdalena

Data host institution: Universidad del Magdalena

% complete: 54%

Status update: We expect to reach the goal in 20 days.

DOI:

Expected date of publication: 2022-07-29

Diptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: his dataset will contain records for Diptera collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad del Magdalena

Number of records: 2,000

Data holder: Universidad del Magdalena

Data host institution: Universidad del Magdalena

% complete: 100%

Status update: The goal was reached and the data set is under a final validation in the ITP test mode by Leonardo Buitrago

DOI:

Expected date of publication: 2022-07-29

Odonata of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: his dataset will contain records for Odonata collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad del Magdalena

Number of records: 133

Data holder: Universidad del Magdalena

Data host institution: Universidad del Magdalena

% complete: 100%

Status update: The goal was reached and the data set is under a final validation in the ITP test mode by Leonardo Buitrago

DOI:

Expected date of publication: 2022-06-30

Hymenoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for ants, wasps and bees collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad CES

Number of records: 50

Data holder: Universidad CES

Data host institution: Universidad CES

% complete: 50%

Status update: Digitization of Hymenoptera from this collection is expected to finish in June 2022

DOI:

Expected date of publication: 2022-09-30

Hymenoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: his dataset will contain records for ants, wasps and bees collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad de Antioquia

Number of records: 50

Data holder: Universidad de Antioquia

Data host institution: Universidad de Antioquia

% complete: 0%

Status update: The digitization of this collection will start in July 2022.

DOI:

Expected date of publication: 2023-01-31

Coleoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for beetles collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad CES

Number of records: 50

Data holder: Universidad CES

Data host institution: Universidad CES

% complete: 50%

Status update: Digitization of Coleoptera from this collection is expected to finish in June 2022

DOI:

Expected date of publication: 2022-09-30

Coleoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for beetles collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad de Antioquia

Number of records: 50

Data holder: Universidad de Antioquia

Data host institution: Universidad de Antioquia

% complete: 0%

Status update: The digitization of this collection will start in July 2022.

DOI:

Expected date of publication: 2023-01-31

Lepidoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for butterflies and moths collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad CES

Number of records: 23

Data holder: Universidad CES

Data host institution: Universidad CES

% complete: 100%

Status update: The goal was reached and the data set is under a final validation in the ITP test mode by Leonardo Buitrago

DOI:

Expected date of publication: 2022-07-20

Lepidoptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for butterflies and moths collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad de Antioquia

Number of records: 20

Data holder: Universidad de Antioquia

Data host institution: Universidad de Antioquia

% complete: 0%

Status update: The digitization of this collection will start in July 2022.

DOI:

Expected date of publication: 2023-01-31

Hemiptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for true bugs collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad CES.

Number of records: 50

Data holder: Universidad CES

Data host institution: Universidad CES

% complete: 40%

Status update: Digitization of Hemiptera from this collection is expected to finish in June 2022

DOI:

Expected date of publication: 2022-09-30

Hemiptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for true bugs collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad de Antioquia

Number of records: 50

Data holder: Universidad de Antioquia

Data host institution: Universidad de Antioquia

% complete: 0%

Status update: The digitization of this collection will start in July 2022.

DOI:

Expected date of publication: 2023-01-31

Diptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for Diptera collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad CES.

Number of records: 59

Data holder: Universidad CES

Data host institution: Universidad CES

% complete: 100%

Status update: The goal was reached and the data set is under a final validation in the ITP test mode by Leonardo Buitrago

DOI:

Expected date of publication:

Diptera of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for Diptera collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad de Antioquia

Number of records: 50

Data holder: Universidad de Antioquia

Data host institution: Universidad de Antioquia

% complete: 0%

Status update: The digitization of this collection will start in July 2022.

DOI:

Expected date of publication: 2023-01-31

Odonata of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for Odonata collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad CES.

Number of records: 29

Data holder: Universidad CES

Data host institution: Universidad CES

% complete: 100%

Status update: The goal was reached and the data set is under a final validation in the ITP test mode by Leonardo Buitrago

DOI:

Expected date of publication:

Odonata of the Caribbean region of Colombia

Dataset type: Occurrences

Dataset scope: This dataset will contain records for Odonata collected in Atlántico, Bolívar, Cesar, Córdoba, La Guajira, Magdalena, and Sucre departments of Colombia, hosted at Universidad de Antioquia

Number of records: 20

Data holder: Universidad de Antioquia

Data host institution: Universidad de Antioquia

% complete: 0%

Status update: The digitization of this collection will start in July 2022.

DOI:

Expected date of publication: 2023-01-31

Other deliverables

Catalogue of selected insect groups from the Caribbean region of Colombia, deposited in some entomological collections of Colombia

Description: Datapaper containing the digitized information of the Hymenoptera (Formicidae, Braconidae), Coleoptera (Scarabaeoidea, Curculionoidea, and Cerambycidae), Lepidoptera, and Heteroptera deposited in the collections digitized for this project.

% complete: 0%

Status update: According to our Activity Detail Summary, the preparation of this datapaper will start in March 2023

Sources of verification: NA

Meeting to socialize project outcomes

Description: We will meet with partners and interested parties to showcase the data produced by this project. The idea is to make all parties (students, university administrators, decision makers) aware of the need and importance of recording information and making it available to a broad audience.

% complete: 0%

Status update: This activity will be conducted at the end of the project (June, 2023).

Sources of verification: NA

Manual for entomological specimen imaging

Description: A manual will be produced about the set up and use of the proposed low-cost imaging system, with information about specimen preparation, equipment settings, and lighting for optimal

results.

% complete: 0%

Status update: We expect to start the editing of this manual by November 2022.

Sources of verification: NA

Evaluation of the impact of directed efforts to digitize specimens deposited in some entomological collections of

Description: Datapaper (or paper) analyzing the information digitized for this project per target group, target Colombian Department, and target institution

% complete: 0%

Status update: We expect to start the editing of this paper by December 2022.

Sources of verification: NA

Events

Workshop of data entry personnel

Dates: 2021-09-21 - 2021-09-23

Organizing institution: Universidad del Magdalena

Country: Colombia

Number of participants: 46

Comments:

Website or sources of verification: Photographies: Activity4_ Training of data entry personnel folder

Events

Workshop in specimen imaging

Dates: 2022-12-20 - 2022-12-22

Organizing institution: Universidad del Magdalena

Country: Colombia

Number of participants: 5

Comments:

Website or sources of verification: Photographies: Activity5_Training in specimen imaging folder

Communications and visibility

We have spread the word about the project employing social media:

<https://twitter.com/Unimagdalena/status/1421078658102571013?s=20>

Additionally, we have invited invited the general public to conferences related to the digitization training process (see photographs of conference invitation)

Reference links to images digitized:

<http://jommesaec.pythonanywhere.com/static/uploads/F2907Lateral.jpg>

<http://jommesaec.pythonanywhere.com/static/uploads/F2907.jpg>

"<http://jommesaec.pythonanywhere.com/static/uploads/F1524Lateral.jpg>

<http://jommesaec.pythonanywhere.com/static/uploads/F1554Lateral.jpg>"

<http://jommesaec.pythonanywhere.com/static/uploads/F1524.jpg>

<http://jommesaec.pythonanywhere.com/static/uploads/F1554.jpg>

<http://jommesaec.pythonanywhere.com/static/uploads/F1474Lateral.jpg>

<http://jommesaec.pythonanywhere.com/static/uploads/F1474.jpg>

<http://jommesaec.pythonanywhere.com/static/uploads/F634Lateral.jpg>

<http://jommesaec.pythonanywhere.com/static/uploads/F634.jpg>

Monitoring and evaluation

Monitoring and evaluation findings

Due to the legal system in Colombia, the development of the project has been harmed by the so-called Ley de Garantías (Guarantee Law). According to this law, since presidential elections are held in Colombia on May 29 and June 29, public entities (such as the Universidad del Magdalena, which manages GBIF resources) cannot contract or make purchases (until August). For this reason, an inter-administrative agreement had to be established between the Universidad del Magdalena and the

Universidad CES (privet university), so that the latter would hire personnel to digitize the collections: Universidad CES, Universidad de Antioquia, Universidad Nacional, Universidad de Antioquia and Instituto Alexande von Humboldt. For this reason, in the financial report it will be seen that the University of Magdalena transferred some resources to the CES University.

Fortunately, the actions taken allowed the hiring of personnel and the digitization of records is more advanced than what was budgeted in the calendar of activities of the original proposal.

The constant communication with Leonardo Buitrago has been a very useful aspect for the project. Thus, the constant accompaniment of Leonardo has allowed progress in the preparation of the data sets, ensuring their good quality.

The aspect in which the project is delayed is that of image capture, but we hope that from June 2022 this activity will be accelerated, especially since the digitization goal has been reached in most of the collections, so in those cases we will concentrate on photographing specimens and generating new data sets not originally contemplated. For example, at the Universidad del Magdalena we have started working on a set of Blattodea from the Colombian Caribbean.

Impact of COVID-19 pandemic on project implementation

So far, because of the pandemic the digitization only slowed down a bit at the beginning of activities (second half of 2021). However, the momentum gained in 2022 made it possible to catch up on the goals.

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.

