



Global Biodiversity Information Facility

# BID Caribbean – National Grant Template Midterm narrative report

#### Instructions

- Fill the template below with relevant information. If no result has been achieved on a specific point, please indicate it as "no result achieved yet" and **indicate expected** date of completion
- Use the information included in your project Full proposal (reproduced in annex III of your BID contract) as a baseline from which to complete this template
- The information provided below must correspond to the financial information that appears in the financial report
- Sources of verification are for example links to relevant digital documents, news/newsletters, brochures, copies of agreements with data holding institutions, workshop related documents, pictures, etc. Please provide access to all mentioned sources of verification by either providing the link or sending a copy of the documents.
- This report must <u>first</u> be sent as a Word document to <u>BID@GBIF.org</u> and be preapproved by GBIFS
- Once this report is pre-approved in writing by GBIFS, it must be signed by the BID project coordinator and sent by post to:

The Global Biodiversity Information Facility Secretariat (GBIFS) Universitetsparken 15 DK-2100 Copenhagen Ø Denmark

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#### Template

# 1. Table of Contents

| 1. | Table of Contents   | . 1 |
|----|---|-----|
| 2. | Project Information   | . 2 |
| 3. | Overview of results   | . 2 |
| 4. | Updated calendar for the BID project implementation and evaluation period | 12  |
| 5. | Beneficiaries/affiliated entities and other cooperation                   | 16  |
| 6. | Visibility  | 16  |







# 2. Project Information

- 2.1. Project Coordinator: Institution/network/agency name: Institute of Jamaica
- 2.2. Main contact person and role: Suzanne Davis (Project Coordinator, and Co-Facilitator for the Jamaica Invasive Species Database Workshop)
- 2.3. BID proposal identifier: BID-CA2016-0001-NAC
- 2.4. Project title: Advancing Jamaican Biodiversity Data Products and Information Services

2.5. Start date and end date of the reporting period: September 11, 2017 – July 30, 2018

2.6. Country in which the activities take place: JAMAICA

## 3. Overview of results

#### 3.1. Executive summary

Give a short summary of the activities implemented and the outcomes of the project for the reporting period (500 words maximum)

The BID Jamaica Project Contract was signed in September 2017 but progress has been slow due largely to some human and financial resource, logistical and IT issues. There were difficulties in procuring a project manager and one was not hired until April 17, 2018. At the time of the project proposal, the IOJ had a full complement of project related staff, but since then the staff complement has decreased and this has affected the pace at which work can be completed.

The JISD workshop was held in January 2018 and the target of 25 new records and 10 updated records met, inclusive of the addition of geographic coordinates where available. However the database software could only accommodate low resolution images and a few of these were entered with the plan to configure the database to accommodate higher resolution images. This is still an issue being worked on. The specimen digitization workshop was held in March 2018 and cameras, light boxes, stands, and a Dell workstation for digitization were purchased.

The GIS and Metadata workshop was held July 5 - 6, 2018, four members of staff from the IOJ Natural History Museum of Jamaica, and two members of staff from NEPA attended. Unfortunately, no one from the JCDT was able to attend at that time.

Approximately 3,033 plant samples from 114 families, 152 genera and 247 species have been entered into the database by the Botany department.

Digitization of samples by the Zoology department has been hampered by three main issues – the wrong adapter sent for the camera, the delayed arrival of a computer for the digitization process, and the delayed arrival of a barcode reader. However, the department is working







on verifying the data in their records to fit the Darwin Code format. So far, the Zoology department has completed verification on 104 families, 233 genera, and 293 species.

Work by both Botany and Zoology has also been hampered by the lack of a suitable printer for printing permanent labels. Measures are being taken to acquire a suitable printer.

Work on the image database has been delayed due to reduced human resources in the IT department.







#### 3.2. Progress against expected milestones:

| Expected milestones/activities  | Completed?<br>Yes/No | Explanatory notes  | Sources of verification  |
|---|----------------------|--|--|
| Completed capacity self-assessment<br>questionnaire for national biodiversity<br>information facilities<br>( <u>www.gbif.org/resource/82277</u> ).  | Yes                  |  | See Appendix<br>1 of the Early<br>Progress<br>Narrative<br>Report. |
| At least one national data publishing<br>institutions are registered with GBIF.org<br>Guidelines to become a publisher:<br><u>https://www.gbif.org/become-a-publisher</u><br>For registered data publishers see:<br><u>http://www.gbif.org/publisher/search</u> | No                   |  |  |
| At least one person from the project team<br>has completed the certification process<br>following the first BID Capacity Enhancement<br>workshop  | Yes                  | On-site and off-site exercises were completed and submitted  | See Appendix<br>2 of the Early<br>Progress<br>Narrative<br>Report. |
| Knowledge dissemination activities have<br>been scheduled following the first BID<br>Capacity Enhancement workshop  | Yes                  | Meeting of the local Project<br>Implementation Team<br>members held on September<br>29, 2017 where presentations<br>on the Capacity Enhancement<br>and Regional Workshops were<br>made by Keron Campbell and<br>Suzanne Davis. | See Appendix<br>3 of the Early<br>Progress<br>Narrative<br>Report. |
| At least one dataset has been published to GBIF.org   | No                   | Scheduled for later in the year.   |  |
| The data users identified in the full proposal have documented their intended use of the mobilized data and provided early feedback   | No                   | Scheduled for later in the year.   |  |

#### 3.3. Project deliverables and activities

Refer to the table in section 2.2 "Deliverables, activities and reporting criteria" of your BID full proposal. Provide updates on the status of each of planned deliverables. In the event of unexpected delay, please provide detailed explanatory notes and indicate planned completion date. Add as many rows as needed.







| Deliverable  | Related activity  | Completed ?<br>Yes/No | Explanatory notes  | Sources of verification   |
|--|---|-----------------------|--|---|
| 1.1 Curatorial staff for<br>NHMJ (8 persons)<br>trained in the<br>digitization of<br>biological specimens<br>and publications,<br>producing<br>approximately 20, 000<br>digitized plant and<br>animal specimens. | With the<br>assistance of<br>personnel from the<br>Natural History<br>Museum, UK<br>(NHMUK), NHMJ<br>staff will be trained<br>in developing and<br>using digitization<br>techniques and<br>workflows for plant<br>and animal<br>specimens | Yes                   | <ul> <li>Training was completed<br/>but progress in<br/>digitization has been slow<br/>due to:</li> <li>the NHMJ staff having<br/>to learn a new<br/>software for<br/>digitization;</li> <li>also delays such as<br/>the wrong camera<br/>adapter for one of the<br/>cameras being sent<br/>from the UK; and also</li> <li>the delayed delivery of<br/>a new computer<br/>(capable of handling<br/>the digitization<br/>process) for the<br/>Zoology department<br/>and lack of a barcode<br/>reader has resulted in<br/>no further digitization<br/>of specimens by<br/>Zoology.</li> <li>In the meantime the<br/>Zoology department is<br/>working on extracting<br/>data from their database<br/>and cleaning up the data.</li> </ul> | See Appendix 1 –<br>digitization<br>workshop<br>expenses<br>See Appendix 2 –<br>receipt from the<br>Post Office for the<br>adapter to be<br>sent back to the<br>UK. |
| 1.2 Document with<br>approaches to<br>digitization<br>customized to the<br>NHMJ specimens,<br>publications,<br>resources and<br>workflows  | Documentation of<br>steps taken in the<br>pre- and post-<br>training processes<br>of developing and<br>using digitization<br>techniques and<br>workflows  | Completed             | This has been completed by the NHM-UK.   | See Appendix 3<br>which is the table<br>of contents of the<br>document.   |
| 1.3 Trained staff (1-2<br>persons) in Darwin<br>Core Archive standard<br>for preparation for<br>creating metadata for<br>biological databases  | One or two<br>selected staff<br>members will<br>attend a regional<br>training workshop<br>hosted by GBIF on<br>Darwin Core<br>Standard in   | Yes                   | Basic Darwin Core<br>Archive standards were<br>covered in the Capacity<br>Building Workshop in<br>June 2017  | Trainer, Laura<br>Russell, can be<br>contacted for<br>confirmation at<br>larussell@gbif.org   |







|   | preparation for<br>creating Metadata<br>for biological<br>databases   |     |   |   |
|---|---|-----|---|---|
| 2.1 New online image<br>database for 50<br>plants, 40 animals<br>and 10 ecosystems<br>from Jamaica that<br>includes taxonomic | Collation of images<br>from IOJ, NEPA<br>and JCDT into one<br>dataset for<br>creation of the<br>image database                              | No  | In progress. So far 32<br>plant, 3 animal, and 3<br>ecosystem photos have<br>been selected. Awaiting<br>images from NEPA.   | See Appendix 4<br>for some of the<br>photos from the<br>IOJ that are being<br>considered. |
| and geographic<br>information   | IOJ, NEPA and<br>JCDT agree on<br>criteria for<br>selection of<br>images  | Yes | Criteria agreed on  | See Appendix 5<br>for Image<br>Selection Criteria.  |
|   | Scanning of<br>images by Image<br>Database<br>Assistant   | No  | Having received cameras<br>for digitization workshop,<br>the cameras are of<br>sufficiently high<br>resolution to digitize<br>slides. Photographs are<br>to be scanned. Image<br>Database Assistant not<br>yet hired. |   |
|   | Creation of<br>template for online<br>database and<br>uploading of<br>images into<br>database   | No  | In progress   |   |
|   | Adding relevant<br>data and metadata<br>to selected images<br>e.g. Identification,<br>date, locality,<br>altitude, GPS<br>coordinates, etc. | No  | In progress   |   |
|   | Publishing of<br>image database<br>locally  | No  | Database not completed  |   |







| 2.2 Increased content<br>for the Jamaica<br>Invasive Species<br>Database (JISD) via<br>25 new records and<br>updating of 10<br>existing records for<br>invasive alien species<br>(IAS) | Configuration of<br>JISD for<br>coordinates and<br>images by JISD<br>Technical<br>Facilitator                       | Yes         | This was done in early<br>January.   | See Appendix 7<br>of Early Progress<br>Report                     |
|--|---|-------------|--|---|
|  | Selection of new<br>IAS records to be<br>entered and<br>existing records to<br>be updated                           | Yes         | Species selected form<br>the National list of<br>invasive alien species.   |   |
|  | Organization of an<br>IAS Data Entry<br>and Content<br>Update Workshop  | Yes         | JISD Content Workshop<br>held Jan 17-18, 2018.<br>International Trainer (Dr.<br>Silvia Ziller) offered<br>workshop consultancy.  |   |
|  | Entry of text,<br>images and spatial<br>data to the JISD at<br>the Workshop   | Yes         | Entry of 10 geographic<br>coordinates means there<br>is now spatial data for<br>some records. Few<br>images were added due<br>to issues with the size of<br>the photos. This is still<br>being resolved. | See Appendix 16<br>of Early Progress<br>Report                    |
| 2.3 Total of five<br>expanded (updated)<br>national databases on<br>biodiversity and<br>publications   | Addition of<br>digitized insect<br>specimens and/or<br>scanned animal<br>photographs to<br>NHMJ zoology<br>database | No          | Computer equipment<br>received but barcode<br>scanner not received.<br>However, data<br>verification is being<br>performed and taxon<br>trees created.   | See Appendix 6<br>for list of Families<br>entered for<br>Zoology. |
|  | Addition of<br>digitized flowering<br>plant specimens<br>and/ or scanned  | In progress | Some 3,033 plants have<br>been entered into the<br>database and have been<br>verified.   | See Appendix 7<br>for list of Families<br>entered for<br>Botany.  |







|  | plant photographs<br>to NHMJ<br>herbarium<br>database<br>Addition of  | Yes       | A total of 10 species   | See Appendix 16  |
|--|---|-----------|---|--|
|  | coordinates to<br>Jamaica Invasive<br>Species Database<br>(JISD)  |           | records have spatial data.  | of Early Progress<br>Report  |
|  | Addition of<br>flowering plant<br>specimens<br>scanned images to<br>Jamaica Virtual<br>Herbarium (JVH)  | No        | Scheduled for late-2018   |  |
|  | Addition of<br>digitized<br>publications to<br>NHMJ library<br>database   | No        | Scheduled for mid-late 2018   |  |
| 2.4 Total of three<br>maps and one<br>checklist based on<br>wildlife research<br>permit data for 2010-<br>2015, showing<br>biodiversity research<br>i) in protected areas<br>islandwide, ii) in the<br>Blue & John Crow<br>Mountains National<br>Park, iii) fo <i>Miconia</i><br><i>sp.</i> , and a checklist for<br>birds located in front<br>Hill, St. Elizabeth | Creation of<br>research<br>distribution maps<br>from Wildlife<br>Research Permit<br>data and the IOJ<br>databases using<br>ArcGIS tools with a<br>focus on the Blue<br>and John Crow<br>Mountain National<br>Park (BJCMNP)<br>Online publishing<br>of maps and<br>checklist | Partially | Maps completed during<br>workshop held July 5 – 6,<br>2018. However, there<br>are difficulties with finding<br>a server to host the<br>content generated due to<br>IT resource issues at<br>both the IOJ and NEPA.                                  | See Appendix 8<br>for list of maps<br>created. See<br>Appendix 9 for<br>the Course<br>Outline. |
| 2.5 Metadata for a<br>total of four to five<br>datasets or<br>databases:   | Training Workshop<br>for the creation of<br>metadata using the<br>Darwin Core<br>Archive Standard   | No        | Metadata (ArcGIS' item<br>description) has been<br>added to one of the maps<br>from 2.4 above and will<br>be added to the other<br>two. Darwin Core<br>Archive Standard<br>metadata is being applied<br>to data during the<br>digitization process. |  |
|  | Online publishing<br>of metadata on IOJ<br>web and Jamaica  | No        | Scheduled for last<br>Quarter of 2018. At<br>present the IOJ and the  |  |







|   | CHM websites   |    | CHM websites are<br>experiencing technical<br>issues.                                  |  |
|---|--|----|--|--|
| 2.6. Project data and<br>information accessible<br>through GBIF.org   | Dialogue with<br>GBIF on Data<br>Publishing and<br>hosting options for<br>our project data<br>information  | No | September 2018   |  |
|   | Submission of<br>project data, i.e.<br>images, digitized<br>specimens,<br>coordinates (where<br>available) and<br>metadata to a<br>GBIF Publisher  | No | Need assistance from<br>GBIF in identifying Host<br>Institution for published<br>data. |  |
|   | Online publishing<br>of project data by<br>GBIF Publisher  | No | Scheduled for late 2018  |  |
| 3.1 Sensitization of<br>key biodiversity<br>stakeholders (e.g.)<br>natural resource<br>regulators, protected<br>area managers,<br>academia and policy<br>makers) on freely<br>available data and<br>information to inform<br>national biodiversity<br>planning, policy and<br>reporting.<br>Examples of how<br>digitized specimens,<br>images and maps can<br>inform the biodiversity<br>strategies, the BJMNP<br>Management Plan<br>and complement the<br>monitoring of wildlife<br>research in Jamaica. | Jamaica<br>Biodiversity<br>Information for<br>National<br>Development<br>(BIND) Workshop<br>to i) present and<br>share project<br>outputs and ii)<br>highlight both<br>actual and<br>potential uses of<br>the project data<br>and information<br>under 2-3 themes<br>e.g. invasive<br>species<br>management,<br>national<br>biodiversity<br>reporting and<br>protected area<br>planning. | No | Scheduled for late 2018  |  |







#### 3.4. Datasets published on GBIF.org

If the dataset is not yet published, please indicate the name of the institution that is expected to host the data when published in the column "DOI or URL/Planned hosting institution". Add as many rows as needed.

| Dataset title            | Publishing institution  | DOI or URL/Planned hosting institution       | Date/expected<br>date of<br>publication | Explanatory<br>notes      |
|--------------------------|-------------------------|--|---|---------------------------|
| Invasive Alien Species   | Institute of<br>Jamaica | To be discussed with GBIF/BID Secretariat    | By Oct 2018                             | Data not yet<br>mobilized |
| Insects                  | Institute of<br>Jamaica | To be discussed with<br>GBIF/BID Secretariat | By Oct 2018                             | Data not yet<br>mobilized |
| Flowering Plants         | Institute of<br>Jamaica | To be discussed with<br>GBIF/BID Secretariat | By Oct 2018                             | Data not yet<br>mobilized |
| Mushrooms, mosses        | Institute of<br>Jamaica | To be discussed with<br>GBIF/BID Secretariat | By Oct 2018                             | IT technical<br>issues    |
| Miconia and Bird Species | Institute of<br>Jamaica | To be discussed with GBIF/BID Secretariat    | Aug - Sep 2018                          | IT technical issues       |
|                          |                         |  |   |                           |

#### 3.5. Examples of use of biodiversity data available through GBIF

Use the table to document use or planned use of data available through GBIF as part of your project. You may want to refer to the section 2.5 "Plan to support the integration of biodiversity information into policy and decision-making processes" of your BID full proposal. Please provide the DOI for datasets published on GBIF or data downloaded from GBIF in the "Dataset" column. Briefly describe how the data have been used or are planned to be used in the "Data use" column (ca. 50 words). Provide the date or approximate time frame in months for the use or planned use in the "Date/time frame" column. Please provide links to any documents or webpages documenting the use in the "Sources of verification" column. Add as many rows as needed.

| Dataset                   | Data user   | Data use  | Date/time<br>frame            | Sources of verification | Notes |
|---------------------------|---|---|-------------------------------|-------------------------|-------|
| Invasive Alien<br>Species | Invasive Alien<br>Species<br>Working Group<br>(Jamaica) | In both supporting and<br>promoting planning,<br>research on and public<br>outreach about invasive<br>alien species, inclusive of<br>the Blue and John Crow<br>Mtns. National Park.<br>Documents on the status<br>and trends of biodiversity<br>e.g. Jamaica's State of the<br>Environment Report; and<br>National Spatial Plan | Within an<br>18 mth<br>period |                         |       |
| Insects                   | IOJ, National<br>Environment<br>and Planning<br>Agency  | Documents on the status<br>and trends of biodiversity<br>e.g. Jamaica's State of the<br>Environment Report  | Within an<br>18 mth<br>period |                         |       |







|                                    | (NEPA),<br>Jamaica<br>Conservation<br>and  | Environmental research in the Blue and John Crow   |                               |  |
|------------------------------------|--|--|-------------------------------|--|
| Flowering Plants                   | IOJ, National<br>Environment<br>and Planning<br>Agency<br>(NEPA),<br>Jamaica<br>Conservation<br>and<br>Development<br>Trust (JCDT) | Documents on the status<br>and trends of biodiversity<br>e.g. Jamaica's State of the<br>Environment Report<br>Environmental research in<br>the Blue and John Crow<br>Mountains National Park | Within an<br>18 mth<br>period |  |
| Mushrooms,<br>mosses               | National<br>Environment<br>and Planning<br>Agency<br>(NEPA),<br>Jamaica<br>Conservation<br>and<br>Development<br>Trust (JCDT)      | Documents on the status<br>and trends of biodiversity<br>e.g. Jamaica's State of the<br>Environment Report<br>Environmental research in<br>the Blue and John Crow<br>Mountains National Park | Within an<br>18 mth<br>period |  |
| <i>Miconia</i> and Bird<br>Species | IOJ, National<br>Environment<br>and Planning<br>Agency<br>(NEPA),<br>Jamaica<br>Conservation<br>and<br>Development<br>Trust (JCDT) | Documents on the status<br>and trends of biodiversity<br>Assist in identifying gaps in<br>conservation monitoring.   | Within an<br>18 mth<br>period |  |

#### 3.6. Events organized as part of the project

List all the events that have been organized as part of your project. Please provide links to any documents or webpages documenting the use in the "Sources of verification" column. Add as many rows as needed.

| Full title               | Organizing institution | Dates    | Number of participants | Sources of verification   |
|--------------------------|------------------------|----------|------------------------|---|
| JISD<br>workshop         | IOJ                    | Jan 2018 | 14                     | https://pbs.twimg.com/media/DeT5hETUQAAAehJ.png<br>JISD Manual    |
| Digitization<br>Workshop | IOJ                    | Mar 2018 | 7                      | https://pbs.twimg.com/media/DeUAMh5VQAATDee.png<br>See Appendix 3 |
|                          |                        |          |                        |   |







# 4. Updated calendar for the BID project implementation and evaluation period

The calendar should be completed in the same way as in the Full Project Proposal, but should include any expected changes. Provide reasons for any expected changes in section 5.1 'Explanatory Notes'.

| Implementation period start date and end date (dd/mm/yy) 11/09/18 – 15/02/19                        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |   |     |     |  |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|---|-----|-----|--|
| Activity  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 1 | 6 1 | 7 1 | 8 Notes  |
| Hiring of project manager   |   | * | * | * | * | * | * | * |   |    |    |    |    |    |    |   |     |     | After a number of interviews, a Project<br>Manager was selected and the contract<br>signed April 17, 2018.                             |
| Project management (Hiring of project staff,<br>monitoring, evaluating and reporting on<br>project) |   |   | * | * | * | * | * | * | * | *  | *  | *  | *  | *  | *  |   | * ` | k   |  |
| BID Regional Meeting and Capacity<br>Enhancement workshop (Participation is<br>mandatory)           |   | * |   |   |   |   |   |   |   |    |    |    |    |    |    |   |     |     |  |
| Early Progress evaluation and Reporting   |   |   |   |   | * | * |   |   |   |    |    |    |    |    |    |   |     |     |  |
| Mid-term evaluation and reporting   |   |   |   |   |   |   |   |   | * | *  | *  | *  | *  |    |    |   |     |     |  |
| Project Partner Meetings  | * |   |   |   |   |   | * |   | * |    |    |    |    |    |    |   |     |     | Project meeting scheduled for Nov 2017 was<br>not held as a Project Manager had not yet<br>been employed.<br>Meeting held May 17, 2018 |
| Digitization Training   |   |   |   |   |   |   | * |   |   |    |    |    |    |    |    |   |     |     | Held March 2018  |
| Digitization Documentation  |   |   |   |   |   |   | * | * | * | *  |    |    |    |    |    |   |     |     | Completed.   |
| Darwin Core Training  |   |   |   |   |   |   | * |   |   |    |    |    |    |    | 1  |   |     |     |  |



# 



| Implementation period start date and end date (dd/m | , <b>y</b> | - | 1 | 1 | r | r |   | 0 | 0 | 40 |    | 40 | 40 |    | 4- |   | 0 4- | 40 | N. (  |
|---|------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|---|------|----|---|
| Activity  | 1          | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 1 | 6 17 | 18 | Notes                                       |
| Purchase and Importation of Materials/IT            |            |   |   |   |   |   |   |   |   |    |    |    |    |    |    |   |      |    | See purchase order for PC Workstation –     |
| items   |            |   |   |   |   |   |   |   |   |    |    |    |    |    |    |   |      |    | Dell (see Appendix 18 from Early Progress   |
|   |            |   |   |   | * | * | * |   |   |    |    |    |    |    |    |   |      |    | Report)                                     |
|   |            |   |   |   |   |   |   |   |   |    |    |    |    |    |    |   |      |    | Also invoices from Gravitas, Argos, Softek, |
|   |            |   |   |   |   |   |   |   |   |    |    |    |    |    |    |   |      |    | Aero, and Jamaica Customs in Appendix 1     |
| Image collation                                     |            |   | * |   |   |   |   |   | * |    |    |    |    |    |    |   |      |    | Delayed but in progress.                    |
| Image selection                                     |            |   |   |   |   |   |   |   | * | *  | *  |    |    |    |    |   |      |    | See list of images from the IOJ selected so |
|   |            |   |   |   |   |   |   |   |   |    |    |    |    |    |    |   |      |    | far in Appendix 4                           |
| Hiring of Image Scanning Assistant                  |            |   |   |   |   |   |   |   |   | *  | *  |    |    |    |    |   |      |    |   |
| Image scanning                                      |            |   |   |   |   |   |   |   |   | *  | *  | *  |    |    |    |   |      |    |   |
| Creation of online image database                   |            |   |   |   |   |   |   |   |   |    | *  | *  | *  |    |    |   |      |    | Interface designed.                         |
| Image annotation                                    |            |   |   |   |   |   |   |   |   |    | *  | *  | *  |    |    |   |      |    |   |
| Online image publishing                             |            |   |   |   |   |   |   |   |   |    | *  | *  | *  |    |    |   |      |    |   |
| Configuration of JISD                               |            |   |   |   |   |   |   |   |   |    |    |    |    |    |    |   |      |    | Configuration completed, except for         |
|   |            |   |   |   | * |   |   |   |   |    |    |    |    |    |    |   |      |    | additional configuration of larger          |
|   |            |   |   |   |   |   |   |   |   |    |    |    |    |    |    |   |      |    | photographs.                                |
| IAS selection                                       |            |   |   |   | * |   |   |   |   |    |    |    |    |    |    |   |      |    |   |
| IAS Workshop Preparation                            |            |   |   | * | * |   |   |   |   |    |    |    |    |    |    |   |      |    |   |
| IAS Workshop  |            |   |   |   | * |   |   |   |   |    |    |    |    |    |    |   |      |    |   |
| Adding coordinates to JISD                          |            |   |   |   | * |   |   |   |   |    |    |    |    |    |    |   |      |    | Targets met and process is ongoing.         |
| Digitization Training                               |            |   |   |   |   |   | * |   |   |    |    |    |    |    |    |   |      |    |   |
| Digitization of Biological Specimens and            |            |   |   |   |   |   | * | * | * | *  | *  | *  | *  | *  | *  | > | *    |    | Digitization of Biological Specimens is     |



# 



| Implementation period start date and end date (dd/m    | m/yy | ) 11 | /09/ | 18 – | 15/ | 02/1 | 9 |   |   |    |    |    |    |    |      |     |     |   |  |
|--|------|------|------|------|-----|------|---|---|---|----|----|----|----|----|------|-----|-----|---|--|
| Activity   | 1    | 2    | 3    | 4    | 5   | 6    | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 4 15 | 5 1 | 6 1 | 7 | 8 Notes  |
| Publications   |      |      |      |      |     |      |   |   |   |    |    |    |    |    |      |     |     |   | ongoing. Digitization of Publications completed. |
| Digitization Documentation                             |      |      |      |      |     |      | * | * | * | *  | *  |    |    |    |      |     |     |   | Digitization Manual completed by NHM-UK          |
| Preliminary Metadata Creation                          |      |      |      |      |     |      |   |   |   |    | *  | *  | *  |    |      |     |     |   | In progress                                      |
| Adding photos to NHMJ animal database                  |      |      |      |      |     |      |   | * | * | *  | *  | *  | *  | *  | *    | : : | *   |   | Delayed  |
| Adding photos to NHMJ plant database                   |      |      |      |      |     |      |   | * | * | *  | *  | *  | *  | *  | *    | :   |     |   | In progress                                      |
| Adding digitized specimens to JVH                      |      |      |      |      |     |      |   |   |   |    |    |    |    | *  | *    |     |     |   |  |
| Adding digitized publications to NHMJ library database |      |      |      |      |     |      |   |   |   | *  | *  | *  |    |    |      |     |     |   | Not done   |
| Production of distribution maps                        |      |      |      |      |     |      |   |   |   |    | *  |    |    |    |      |     |     |   | Not done   |
| Online publishing of maps                              |      |      |      |      |     |      |   |   |   |    | *  | *  | *  |    |      |     |     |   | IT technical issues                              |
| Local publishing of metadata                           |      |      |      |      |     |      |   |   |   |    | *  | *  | *  | *  | *    |     |     |   |  |
| GBIF.org Access  |      |      |      |      |     |      |   |   |   | *  | *  | *  | *  | *  | *    |     |     |   |  |
| BIND Workshop  |      |      |      |      |     |      |   |   |   |    |    |    |    | *  | *    |     |     |   |  |
| Project Reporting                                      |      |      |      |      |     |      |   |   | * | *  |    |    |    |    | *    | ;   | *   | * | *  |
| Project Evaluation                                     |      |      |      |      |     |      |   |   |   |    |    |    |    |    |      | 1   | * : | * | *  |
|  |      |      |      |      |     |      |   |   |   |    |    |    |    |    |      |     |     |   |  |
|  |      |      |      |      |     |      |   |   |   |    |    |    |    |    |      |     |     |   |  |
|  |      |      |      |      |     |      |   |   |   |    |    |    |    |    |      |     |     |   |  |
|  |      |      |      |      |     |      |   |   |   |    |    |    |    |    |      |     |     |   |  |







| Evaluation period start date and end date (dd/mm/yy) |   |   |   |       |
|--|---|---|---|-------|
| Activity   | 1 | 2 | 3 | Notes |
| <activity name=""></activity>                        |   |   |   |       |
| <activity name=""></activity>                        |   |   |   |       |
|  |   |   |   |       |
|  |   |   |   |       |
|  |   |   |   |       |

#### 4.1. Explanatory notes:

- a) There were challenges hiring a project manager and the process was delayed until April 17, 2018.
- b) Darwin Core Training occurred as part of the Digitization workshop.

c) The Zoology department has had difficulties with digitization due to the wrong camera adapter being sent and also to the delayed delivery (May 29, 2018) of a computer for digitization and installation of required software, as well as the delayed delivery of a barcode reader thus resulting in a delay in digitization. At present their start and end dates will be determined by the date of arrival of the barcode scanner. There are also issues with the Darwin Core based Museum software recommended by the NHM UK which have not been resolved and will require a subscription to receive support from the developers.







# entities and

# 5. Beneficiaries/affiliated

## other cooperation

#### 5.1. Relationship with project partners

Please describe the relationship between your project coordinating team/institution and your project partners, and with any other organisations involved in implementing your BID project.

To date, all project partners have been engaged in the implementation of one or more project activities. NEPA assisted the IOJ with interviews for the project manager (2017) and documentation for the JISD Trainer. JCDT assisted the IOJ with interviews for the project manager in 2018. IOJ, NEPA and JCDT participated in the JISD Workshop. The Natural History Museum, UK has provided follow up digitization advice via Skype and e-mail and has prepared a Digitization manual for the IOJ.

#### 5.2. Links to other projects and actions

Where applicable, outline any links and synergies you have developed with other actions, e.g. GBIF nodes, other BID funded projects, etc. If your organization has received previous grants in view of strengthening the same target group, to what extent has your BID project been able to build upon/complement the previous project(s) ?

Some of the flowering plants which will be digitized will be added to the Jamaica Virtual Herbarium at the University of the West Indies.

## 6. Visibility

Please refer to the **BID** guidelines.

#### 6.1. Visibility of the BID project

How is the visibility of your BID project being ensured?

#### Short summary

Project visibility has been through advertisements for a Project Manager, through a Jamaica Clearing-House Mechanism electronic newsletter, through the JISD and Digitization workshops, and through post-event media releases of the JISD and Digitization Workshops on the Natural History Museum of Jamaica's Facebook and Twitter pages.

#### Sources of verification

- https://twitter.com/iloveNHMJ/status/1001207087215636480
- <u>https://pbs.twimg.com/media/DeT5hETUQAAAehJ.png</u>
- <u>https://www.facebook.com/naturalhistorymuseumofjamaica/photos/pcb.2014867025212824/201486649</u> <u>8546210/?type=3</u>

#### 6.2. Visibility of the EU contribution

How is the visibility of the EU contribution being ensured within your project implementation?







#### Short summary

Post-event media releases for the JISD and Digitization workshops on Facebook and Twitter.

#### Sources of verification

- https://twitter.com/iloveNHMJ/status/1001207087215636480
- <u>https://pbs.twimg.com/media/DeT5hETUQAAAehJ.png</u>
- <u>https://www.facebook.com/naturalhistorymuseumofjamaica/photos/pcb.2014867025212824/201486649</u> <u>8546210/?type=3</u>

Signature \_\_\_\_\_

Name of the contact person for the BID Project: Suzanne Davis

Date report sent by email to GBIF Secretariat for pre-approval: July 31, 2018



# 🔊 BID



### **APPENDIX 3**

# Jamaica Digitisation Training Workshop: 12<sup>th</sup> – 16<sup>th</sup> March 2018

# Table of Contents

| 1.       | Table of Contents   | . 1 |
|----------|---|-----|
| 2.       | Project Information   | . 2 |
| 3.       | Overview of results   | . 2 |
| 4.       | Updated calendar for the BID project implementation and evaluation period | 12  |
| 5.       | Beneficiaries/affiliated entities and                                     | 16  |
| other of | cooperation   | 16  |
| 6.       | Visibility  | 16  |







#### Some Photos from the IOJ that are being Considered for the Image Database

#### Plants

- 1. Lisianthus exsertus
- 2. Bletia purpurea
- 3. White Lignum vitae
- 4. Drosera capillaris and Dionaea muscipula
- 5. Baobab tree
- 6. Lindsaea portoricensis
- 7. Melochia crenata
- 8. Stenocereus hystrix
- 9. Cocoloba uvifera
- 10. Sesuvium portulacastrum
- 11. Canavalia rosea
- 12. Ipomoea pescaprae
- 13. Leonotis nepetifolia
- 14. Opuntia
- 15. Govenia utriculata
- 16. Roystonea jamaicana
- 17. Zephyranthes carinata
- 18. Batis maritima
- 19. Clethra spp
- 20. Nepseia aquatica
- 21. Chrysobalanus icaco
- 22. Paspalum distichum
- 23. Fimbrisylis cmyosa
- 24. Alternanthera ficoides and Boerhavia erecta
- 25. Opuntia spinosissima
- 26. Leucaena leucocephala

- 27. Calotropis procera
- 28. Euphorbia punicea
- 29. Hohenbergia spinulosia and urbaniana
- 30. Passiflora oblongata
- 31. Euphorbia leucocephala
- 32. Lisianthus exsertus
- 33. Passiflora and Doctor bird (hummingbird)
- 34. Nun's Hood Orchid

#### Animals

- 1. Megalobulimulus oblangus aka Strophocheilus oblongus
- 2. Telebasis dominicanum
- 3. Cyclura collie
- 4. Dragonfly
- 5. Erythrodiplax umbrata
- 6. Spotted Sandpiper
- 7. Immature white Ibis

#### Ecosystems

- Hillside degradation of forest which has been replaced with pine trees and bamboo
- 2. Salina, Palisadoes
- 3. Alligator Hole River swamps and round hill in background







#### **Criteria for Selection of Images**

| Images must have been donated         Images older than 70 years can be used (copyright expired)         Terrestrial or Aquatic organisms and ecosystems         Images for which permission can be obtained         Images to be selected should have the following:         a.       Scientific name/Ecosystem name         b.       Location – Parish only |
|---|
| Terrestrial or Aquatic organisms and ecosystems<br>Images for which permission can be obtained<br>Images to be selected should have the following:<br>a. Scientific name/Ecosystem name<br>b. Location – Parish only  |
| Images for which permission can be obtained         Images to be selected should have the following:         a.       Scientific name/Ecosystem name         b.       Location – Parish only  |
| Images to be selected should have the following:<br>a. Scientific name/Ecosystem name<br>b. Location – Parish only  |
| <ul><li>a. Scientific name/Ecosystem name</li><li>b. Location – Parish only</li></ul>   |
| b. Location – Parish only   |
|   |
|   |
| c. Date – year  |
| d. Photo credit (if available)  |
| Colour or black and white photos/slides   |
| No images of animals in captivity, images should be of species in the wild  |
| Natural or disturbed ecosystems can be used   |

Images of invasive species can be selected







#### Data Exports from the Zoology Database Showing Families, Genera and Species Entered

| Family entered               |
|------------------------------|
| Family                       |
|                              |
| Acrididae                    |
| Alcedinidae                  |
| Anatidae                     |
| Apodidae                     |
| Apterygidae                  |
| Aramidae                     |
| Arctiidae                    |
| Ardeidae                     |
| Blaberidae                   |
| Blattidae                    |
| Boidae                       |
| Caprimulgidae<br>Capromyidae |
| Carabidae                    |
| Cardinalidae                 |
| Cathantidae                  |
| Charadriidae                 |
| Cheloniidae                  |
| Coerebidae                   |
| Columbidae                   |
| Corvidae                     |
| Cotingidae                   |
| Crambidae                    |
| Crocodylidae                 |
| Ctenuchidae                  |
| Cuculidae                    |
| Dactyloidae                  |
| Diploglossidae               |
| Dipsadidae                   |
| Dryophthoridae               |
| Ectobiidae                   |
| Emberizidae                  |
| Emydidae                     |
| Estrildidae                  |
| Eumastacidae<br>Euteliidae   |
| Falconidae                   |
| Fregatidae                   |
| Fringillidae                 |
| Gelechiidae                  |
| Geometridae                  |
| Gryllacrididae               |
| Gryllidae                    |
|                              |







#### Data Exports from the Botany Database Showing Families, Genera and Species Entered

| Families entered                     |
|--------------------------------------|
| Family                               |
|                                      |
| Acoraceae                            |
| Alismataceae                         |
| Alliaceae                            |
| Alstroemeriaceae                     |
| Amaryllidaceae                       |
| Anarthriaceae                        |
| Anthericaceae                        |
| Aponogetonaceae                      |
| Araceae                              |
| Asparagaceae                         |
| Asparagales                          |
| Asphodelaceae                        |
| Asteliaceae                          |
| Asteraceae                           |
| Beaniaceae                           |
| Blandfordiaceae                      |
| Boryaceae                            |
| Bromeliaceae                         |
| Burmanniaceae                        |
| Butomaceae                           |
| Calamitaceae                         |
| Calamostachyaceae<br>Campynemataceae |
| Camponenataceae                      |
| Centrolepidaceae                     |
| Colchicaceae                         |
| Commelinaceae                        |
| Convallariaceae                      |
| Corsiaceae                           |
| Costaceae                            |
| Cycadaceae                           |
| Cyclanthaceae                        |
| Cymodoceaceae                        |
| Cyperaceae                           |
| Dasypogonaceae                       |
| Dioscoreaceae Doryanthaceae          |
| Ecdeiocoleaceae                      |
| Elaeoecarpaceae                      |
| Equisetaceae                         |
| Eriocaulaceae                        |
| Euphorbiaceae                        |
|                                      |







#### List of Maps Created in the GIS and Metadata Workshop

Maps created during the GIS and Metadata Workshop were:

- 1. Biodiversity Research in Protected Areas 2010 2015
- 2. Miconia Research in Jamaica 2010 2015
- 3. Research in the Blue and John Crow Mountains National Park 2010 2015







#### Course Outline for the GIS and Metadata Workshop











