

Bogota DQ Workshop 2014: Replication Results

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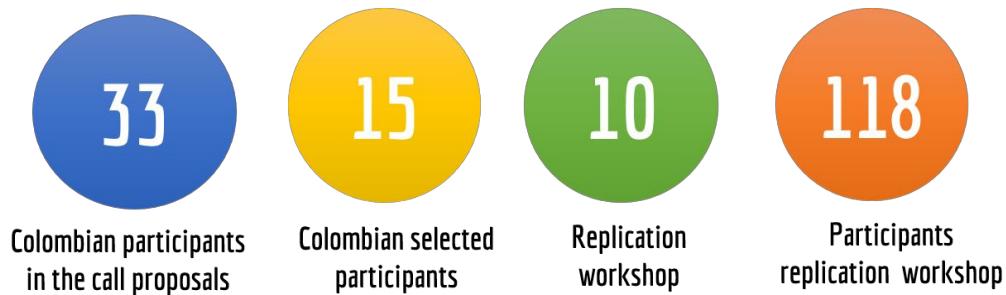
Document control

Date	Description of changes	Responsibles
20/08/2015	Content migration to this document, update information of UPTC replication.	Karen Soacha, Daniel Amariles.

Workshop attendance

In order to expand the impact of creating and/or building capacity, and promote horizontal cooperation among network members, colombian participants for the workshop data quality, should make a replica of the knowledge obtained. In addition the proposed replica was one of the selection criteria. Replicas workshop should be made before by first semester of 2015.

Twentyfive (25) assistants from six countries trained directly in Bogota Data Quality Workshop. Fifteen of them (15/25) were from 14 different colombian organizations. Additionally, 118 assistants participated on ten (10) replication workshops.

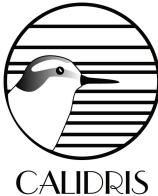
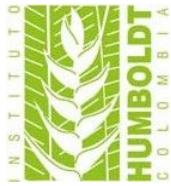


Event assistants whom made a replication workshop

Ten (10) of this assistants realized replication workshops by first semester of 2015, different levels: institutional, local and regional. Supporting the achievement of 118 assistants, mostly biology students and professionals curators from biological collections, besides other researchers.

Four (4) organizations: Instituto Nacional de Salud, Universidad de Los Andes, Asociación de Becarios de Casanare and Asociación Red Colombiana de Reservas Naturales de la Sociedad Civil - RESNATUR, will make training replication on second semester of 2015.

No.	Organizations	Replicator	Date	No. assistants
1	 Universidad del Valle	Eliana Garzón (Universidad del Valle)	From 25/11/2014 to 26/11/2014	9
2	 Universidad Industrial de Santander	Mauricio Torres (Universidad Industrial de Santander)	From 29/11/2014 to 30/11/2014	4

3	 CALIDRIS	Yanira Cifuentes <u>(Asociación para el estudio y conservación de las aves acuáticas en Colombia)</u>	From 04/02/2015 to 06/02/2015	11
4		Johanna Andrea Fuentes (Antea Colombia S.A.S)	03/12/2014	15
5		Juliana Cardona (Universidad CES)	From 17/03/2015 to 29/03/2015	21
6		Johanna Velásquez <u>(Instituto de Investigación de Recursos Biológicos Alexander von Humboldt)</u>	From 25/03/2015 to 27/03/2015	22
7		Jairo Pinto <u>(Fundación Estación Biológica Guayacanal)</u>	13/04/2015	2
8		Raquel Sofía Gómez <u>(Red Nacional de Observadores de Aves)</u>	From 21/05/2015 to 22/05/2015	12
9		Fredy Gamboa <u>(Universidad Icesi)</u>	From 23/05/2015 to 27/05/2015	13
10		Maria Isabel Castro <u>(Universidad Pedagógica y Tecnológica de Colombia)</u>	22/06/2015	9

Replication workshops results

Universidad del Valle (UniValle)

From this replication, handled by Eliana Garzón, there are two relevant impacts to be mentioned: First, it strengthened the capacities of the biological collections team, which is in charge of the data systematization and publication on *Universidad del Valle*. Additionally, since the collections team from the *Universidad de Nariño* was working during that dates in the *Universidad del Valle* herbarium, doing data structuring and locations georeferencing, they could easily be invited to this workshop, so it could support the capacity creation of this team as well.

Cooperation ties between this two Universities of the southwest of the country were strengthened indeed, and that's a fact to be highlighted.

Universidad Industrial de Santander (UIS)

Biological collections data systematization is a task that UIS has been developing since 2014. This workshop participation strengthened their concepts and abilities to use tools, regarding their data quality assurance processes.

Furthermore, it clarify the way to address the need of building up academic components, in order to intensify the biodiversity informatics proficiencies to the students. Mauricio Torres, the academic partner who attended the workshop, made a replication of the knowledge learned to the staff from zoological collections (herbarium staff were attending as well the RNJB replication).

Likewise, he designed a course of techniques for data collection in field and biological collections systematization, and the formal proposal to be introduced into the biological career syllabus was already made. For sure, this activity will constantly improve the capacities of the new graduate biology professionals in this University, at least regarding data management matters.

Asociación para el estudio y conservación de las aves acuáticas en Colombia (Calidris)

This replication workshop was oriented to the geography program students in *Universidad del Valle* and professionals from *Calidris*. The invitation for this workshop participation, was made with the aim to achieve people interested improve quality of data gathered in field, and hence improve quality of the results regarding species distribution maps.

"At first, assistants seen concerned regarding the quality of the datasets, since their degree papers, that are focused coast birds distribution maps, has to work with reliable results. Nonetheless, after the workshop, they all were satisfied to learn the ways in which the data can be discriminated in order to work only with reliable inputs" said Yanira Cifuentes, who made the replication from *Calidris*.

Antea Group

Since 2013, In Colombia started to apply a new national normative that explicitly stipulates that all people and organizations that collects specimens should publish this information through SiB Colombia. There is a concern regarding the data quality of this considerable important datasets that are being published, in some cases data from currently poor-sampled places and with high biological diversity.

As Antea S.A.S. is a business for environmental impact assessment, mainly for infrastructure projects. This normative is an important concern, that's why, strength capacities in this kind of audiences is critical.

This replication at Antea is a start of this issue addressing, since this kind of organizations have showed problems in data quality matters and is a big concern. Also, it should be considered that some environmental assessments presents results for the approve or disapprove of large infrastructure projects that may affect the biodiversity of the country regions.

Universidad CES

Universidad CES had the initiative of make a replication workshop in which twelve (12) organizations from three (3) departments of Colombia were participating.

Assistants from Amazonas, Antioquía and Chocó were part in this enriching activity. The involved organizations in this project were:

- *Escuela de Ingeniería de Antioquia*
- *MEDEL herbarium of the Universidad Nacional de Colombia* in Medellin.
- *Instituto Colombiano de Medicina Tropical* hosted in *Universidad CES*.
- *Instituto de Investigaciones Ambientales del Pacífico*
- *Jardín Botánico de Medellín*
- *Parque Nacional Natural Las Orquídeas*
- *Universidad Católica de Oriente*
- *Universidad de Antioquia*
- *Universidad de la Amazonía*
- *Universidad EAFIT*
- *WCS Colombia*
- *Universidad CES*

This replication workshop had special emphasis in biological collections professionals. It was a four (4) days event, that reproduce with a strong practical component the data quality matters, specially those regarding georeferencing.

Furthermore, this workshop promoted the inclusion of "Legislation and data quality for biodiversity research course" in the *Universidad CES*, oriented to science teachers.

Indeed, this is one of the replication with more impact around the community and the capacity created in the university faculty is expected to be extended to biology the students of courses leaded by the participants teachers.

Instituto de Investigación de Recursos Biológicos Alexander von Humboldt (IAvH)

IAvH as coordinator and host of SIB Colombia, recognize the relevance of strength their institutional process regarding the biodiversity data management. This replication workshop became an opportunity of articulate the internal needs of capacity building of data quality matters into the Institutional Data Infrastructure (I2D), a special dependency of the IAvH.

As a result, a three (3) days workshop were developed to assistants from different dependencies of the IAvH that are involve in data management. Practical activities were made based on exercises that implicate real institutional data. It was a special emphasis in locations georeferencing for biodiversity primary data.

As an additional result, enhancements to the methodology of the data structuration of the internal process were identified. Moreover, an intern guide for self-training in data quality was developed.

"Participants show a high interest for learn and apply the tools presented in the training, and understanding the relevance of their use. Favorable comments where received related to the practical session and the participants themselves propose to open more activities like this one" said Johanna Velásquez, replication trainer from IAvH.

Fundación Estación Biológica Guayacanal

This organization made a training focused in the people in charge of their herbarium. The subjects addressed in the workshop revealed several incompatibilities in the way they were gathering the field data and the standards for data documentation. Thus, they decided to endeavour a strategy to gradually readjust the data gathering and data systematization processes.

Red Nacional de Jardines Botánicos (RNJB)

Replication made by RNJB was oriented for two organizations in the región of Santander: the herbarium of UIS, complementing the UIS replication workshop; and the herbarium of Corporación para la Defensa de la Meseta de Bucaramanga (CDMB), which is one of the environmental authorities that works in that region.

Students that works supporting the herbariums labors and learning about database management, attended the training.

"Participants show great interest during the activity. Many of them haven't work with the tools before and they found them pretty useful. Likewise, they made a discussion around how to improve the way they have been handling the main problems with herbariums data. Some students manifested their interest of being part of workgroups from UIS herbarium and CDMB" said Raquel Sofia from RNJB.

Universidad ICESI

Biology students from active research seedbeds and projects, participated in this replication workshop, as well as monitor students that support biological collections of vertebrates and herbarium.

A discussion around data quality were made between the replication assistants, in order to apply concepts and tools worked to the biodiversity projects.

Universidad Pedagógica y Tecnológica de Colombia (UPTC)

Students from the research group of biology and veterinary medicine participated in this replication workshop.

Pending replication workshops

Universidad de Los Andes

A proposal is settled about making an activity regarding the biodiversity data management in the University, that will definitely include data quality topics. It is expected that this workshop includes biological collection data management, students field trips and research projects data gathering, and how the data management chain support the information requirements from environmental authorities. It is planned to invite to the training to several Universities of the region of Cundinamarca.

Instituto Nacional de Salud

This organization has a particular interest in data structuration, validation and publication regarding their entomological collection. Its participation in the Bogota workshop was approved in order to support other kinds of organizations, since it is in the health sector.

The replication activity haven't taken place since, despite the intentions, the collections staff hasn't defined yet a date or venue for the event. It means that there are no promises to achieve this replication for now. Once this logistic aspects are over, SIB Colombia will still supporting for this replication workshop realization.

Asociación Red Colombiana de Reservas Naturales de la Sociedad Civil (RESNATUR)

RESNATUR is an association of people that voluntary have decided to preserve natural areas of the country. Currently, they are making the inventory of the members of the association and they aim to make a checklist of the species in those territories

SiB Colombia works with RESNATUR in a partnership to facilitate the building and publication of this checklists. To achieve this goal, they will be involved in the citizen science initiative that is being developed by SIB Colombia, in which the good practices in data quality regarding field data gathering will be replicated.

Further related activities

For the Latinamerica Region, there will be a second version of this event, as stated within the "[Regional capacity enhancement by setting up Uruguay's data portal](#)" project, "*a data quality workshop following the regional training activities (which will include both aspects of data quality and data publishing tools). This activity will strengthen the cooperation between Brazil, Canada, and Colombia by consolidating a conceptual and methodological framework for the assessment of biodiversity data quality*". This space is expected to be held on first week of December 2015, in Montevideo (Uruguay).

Replication workshops material used

Assistance checklists, photos and related material of the replication workshops are available on:
<https://goo.gl/91TB8o>