



GEF-Satoyama Subgrantee Highlights Report

Organization Name:	UIS
Country:	Colombia
Reporting Quarter:	FY18 Q3 (January to March 2018)
Person submitting Report:	Björn Reu

<Highlight 1>: Workshop on the working plan: Participants and local leaders explore landscape's touristic potentials
 As part of the project's effort to strengthen the working plan created during the resilience workshops a new meeting was organized with participants and local leaders. A session was dedicated to examining landscape potentials for agri- and eco-turistic services first with the research team and participating students, second with project participants in the study area. With the aid of students, farmers and leaders, key-points and routes in Las Cruces micro-basin were identified and included in a map. Participants expressed their desire of improving their knowledge of the landscape by visiting the key-points in groups.

<Highlight 2>: Ethnographic visits continues
 A group of two students carried out their last visits to the farms in February 2018. They continue interviewing key stakeholders in San Vicente, with interest in relevant institutions' representatives. With the aid of an experienced researcher, the students will produce a report on the ethnographic visits.

<Highlight 3>: Vertebrates, Dung beetles, ants and plants samplings continue in 9 farms and 3 sites in the forest.
 Students continue samplings of terrestrial vertebrates, insects and plants. The optimal methods of sampling for the different taxa have been standardized and the students' trainings have been successfully completed. The camera traps arranged in the crops and forest have shown very interesting and important animal species. The UAV has completed some flights and the students have generated composite images that allow to estimate the vegetation indexes.

<Highlight 4>: The bird biodiversity sampling has been completed.
 Students have completed the sampling of birds. They registered 198 species diurnal birds, 70 species in conserved forest, 120 species in polyculture, 107 species in monoculture. They captured a total of 644 individuals of 132 species. In particular, they captured 44 species (129 individuals) in conserved forest, 65 species (203 individuals) in polyculture, 78 species (272 individuals) in monoculture. The most abundant species; in forest was: *Thalurania colombica* (17), *Coeligena prunellei* (15), *Phaethornis guy* (12), *Doryfera ludovicae* (7), *Adelomyias melanogenys* (6); in polyculture: *Tanager cyanicollis* (16), *Amazilia cyanifrons* (13), *Catharus ustulatus* (10), *Elaenia flavogaster* (10), *Turdus leucomelas* (9); and in monoculture: *Euphonia laniirostris* (22), *Sporophila nigricollis* (16), *Tharupis episcopus* (15), *Coereba flaveola* (10), *Ramphocelus dimidiatus* (10), *Leiothlypis peregrina* (10), *Tanager canicollis* (9). They collected a total of 71060 seeds of 120 morphspecies. The 5 birds that scattered more seeds in all plantations and forest was: *Euphonia laniirostris* (40), *Elaenia flavogaster* (40), *Tanager cyanicollis* (51), *Tharupis episcopus* (21), *Catharus ustulatus* (20).
 The Socialization of the results of birds and seeds with the community has been Completed. The exchange students from Germany and the community expressed the mutual satisfaction of the cultural and academic meeting.

<Highlight 5>: Workshop on participative scenario construction
 On March 3 of this year, a participatory workshop was held in the village of Mérida in the municipality of San Vicente de Chucurí, with producers living in Las Cruces micro-watershed, with the aim of developing the "desired future" scenario for this territory. The workshop was led by Corina Buendía Grigoriu (PhD Corpoica Researcher), Tatiana Rodríguez (UIS-Corpoica Master Thesis) and Björn Reu (UIS Professor and researcher), who are part of the research

team of the project "Reconciling biodiversity conservation and agricultural production in agroforestry cultivation systems in the Colombian Andes".

<Highlight 6>: [Presentation at Natural Capital Symposium](#)

Within the UIS-CORPOICA cooperation entitled "Territory-scale ex-ante impact assessment of the productive transformation of the Las Cruces micro-basin in the municipality of San Vicente de Chucurí", the Master's student in Economics and Development Leidy Tatiana Rodríguez Torres, under the guidance of researcher Corina Buendía Grigoriu, made the presentation entitled "Impact assessment of the productive transformation on the ecosystem services of Las Cruces micro-basin in San Vicente de Chucurí" at the Natural Capital Symposium, held on March 19-22 at Stanford University, California, USA.

Photos



H1.1. In small groups, participants identify relevant places and route in a map of the basin. ©UIS/Juan C. Aceros



H1.2. Workshop participants and a researcher translate their ideas to a shared map. ©UIS/Juan C. Aceros



H1.3. Meeting with participants to examining landscape potentials for agri- and eco-turistic services. ©UIS/Björn Reu



H1.4. Seelfie. Meeting with participants to examining landscape potentials for agri- and eco-turistic services. ©UIS/Diego A. Zárate.



H2.1. A farmer shows a small forest close to his coffee field. ©UIS/Juan C. Aceros



H2.2. The landscape seen from one of the visited farms. ©UIS/Juan C. Aceros



H3.1. *Tremarctos ornatus*, registered in forest. Terrestrial vertebrate sampling by biology student, UIS. ©UIS/Luisa Fernanda Villaba Amaya



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H3.2. *Procyon cancrivorus*, registered in cacao plantations. Terrestrial vertebrate sampling by biology student, UIS.
©UIS/Luisa Fernanda Villalba Amaya



H3.3. *Leopardus sp.*, registered in cacao plantations. Terrestrial vertebrate sampling by biology student, UIS.
©UIS/Luisa Fernanda Villalba Amaya



H3.4. *Cerdocyon thous*, registered in cacao plantations. Terrestrial vertebrate sampling by biology student, UIS.
©UIS/Luisa Fernanda Villalba Amaya



H3.5. *Puma concolor*, registered in forest. Terrestrial vertebrate sampling by biology student, UIS. ©UIS/Luisa Fernanda Villalba Amaya



H3.6. Dung beetles sampling by Daniel Felipe Silva Tavera, biology student, UIS. ©UIS/Oscar Antonio Sanabria Fajardo



H3.7. Daniel count the number of individuals from each trap, for each species or morphospecies (Second sampling).
©UIS/ Daniel Felipe Silva Tavera



H3.8. *Onthophagus* sp., an important dung beetles captured in cocoa plantations. ©UIS/Daniel Felipe Silva Tavera



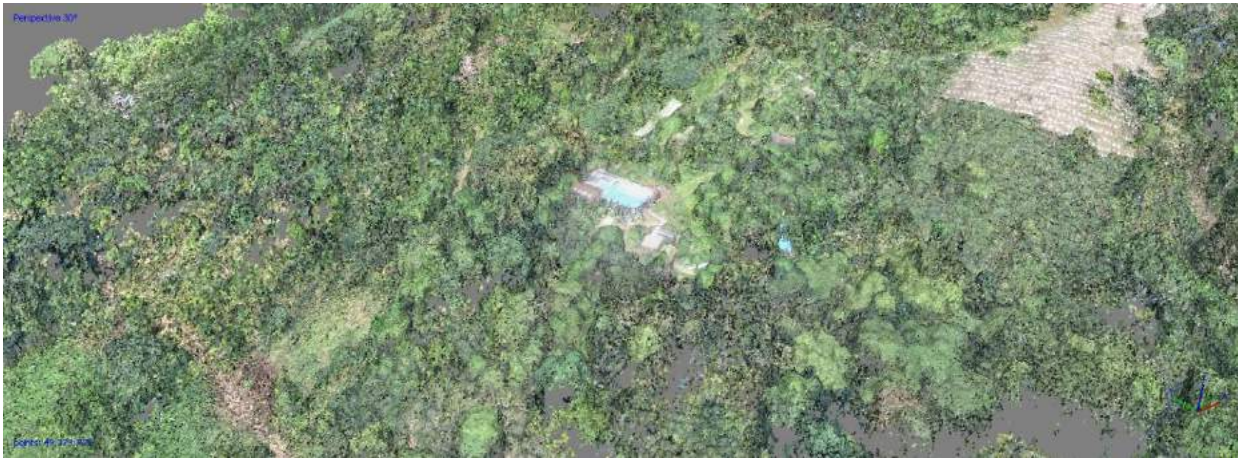
H3.9. *Deltochilum ludergolfi* and *Phanaeus melegaris*, captured in forest. Dung beetles a new report for Santander. Previously it was registered in Boyacá, Meta and el Tolima. ©UIS/Daniel Felipe Silva Tavera



H3.10. Field experiment to quantify ecological functions (dung removal, soil excavation, secondary seed dispersal) performed by Dung beetles. ©UIS/Daniel Felipe Silva Tavera



H3.11. Ants sampling by Oscar Antonio Sanabria Fajardo. ©UIS/Daniel Felipe Silva Tavera



H3.12. Point cloud of the landscape generated from aerial images taken by VANT. ©UIS/Sergio Bolívar & Mateo Jaimes



H3.13. Orthomosaic generated by AGISOFT PHOTOSCAN from aerial images taken by VANT. ©UIS/Sergio Bolívar & Mateo Jaimes



Cardellina canadensis



Amazilia tzacatl



Adelomyias melanogenys



Elaenia flavogaster



Euphonia laniirostris



Zimerius chrysops



Phyllomyias griseiceps



Ramphocelus dimidiatus



Ocreatus underwoodii

H4.1. Some of the most abundant species in the study site. ©UIS/Valentin Fromm and Xaver Schenk



H4.2. *Coeligena prunellei*, endemic hummingbird. ©UIS/Valentin Fromm and Xaver Schenk



H4.3. Team of birds and seeds in field work. ©UIS/Valentin Fromm and Xaver Schenk



H4.5. Socialization of the results of birds and seeds with the community. ©UIS/Federman Rueda Pereira



H4.6. Valentin Fromm and Xaver Schenk in the meeting of presentation of the results of birds and seeds to the community. ©UIS/Carolina Santos-Heredia



H4.7. Poster of the results of birds and seeds to the community. ©UIS/Juan Carlos Aceros



H5. Participatory workshop by Corina Buendía, Tatiana Rodríguez and Björn Reu. ©UIS/Juan Carlos Aceros



H6. Tatiana Rodríguez Torres, at the Natural Capital Symposium. ©UIS