



RESUMEN FINAL DEL PROYECTO

Title of project: I protect birds and what do you do? Initiative to promote the importance and conservation of birds with children and young people of communities near the protected area of San Miguel de Parada.

Participantes:

Investigadora Principal:

1. MsC. Kenia Mestril Cosme. Especialista Conservación Empresa Nacional para la Conservación de la Flora y la Fauna, Santiago de Cuba. espamb@scu.ffauna.cu

Otros participantes en el proyecto:

1. MsC. Inés Lourdes Fernández. Especialista Conservación Empresa Nacional para la Conservación de la Flora y la Fauna, Santiago de Cuba. espfaun@scu.ffauna.cu
2. Lic. Aliuska Rojas Ocaña (Promotora Ambiental. Refugio de Fauna San Miguel de Parada).
Liudmila Neyra. Especialista del Ministerio de Ciencia tecnología y Medio Ambiente.

Dirección:

Empresa Nacional Flora y Fauna. Ave. Los Libertadores / Paseo Martí y 2da de Sorribe, Santiago de Cuba C.P. 90500, Cuba

TELÉFONO: (+53) 22622232 / 22653859

This report is of the activities carried out from January to date, since the partial report was sent in December with the previous activities.

Summary

The implementation of this project: I protect birds and what do you do? Initiative to promote the importance and conservation of birds with children and young people of communities near the protected area of San Miguel de Parada, responds to the need to carry out actions to encourage the need for the care and protection of birds, since this is usually the group of animals that people have more contact with due to the large number of species, their high mobility due to the ability to fly, this causes them to be detected very easily as they display their beautiful colors and songs and reduce. Precisely due to these characteristics is that each Today the illegal capture of different species increases and with it their commercialization, not least the decrease in the populations of some species of birds due to contamination by plastic. By carrying out the different activities, we were able to interact more closely with children, young people and residents in general and we achieved the support of the school teachers, who, although we are in an unexpected situation due to the worsening of the Covid 19 pandemic, however, they participated together with us in the realization of the activities on many occasions house-to-house with the students. We have the participation of 205 people in total among children, youth and adults in all activities in general. A great work of environmental education was developed with actions such as bird observations, talks, conversations, participation games, a curricular program in which the protection of biodiversity is linked and especially dedicated to birds, radio programs and of television, bulletins and leaflets were distributed, thus achieving the proposed objective: To encourage in children and young people the love for endemic birds, as well as the need to protect them, through the activities that we propose and the incorporation of this knowledge in their curricular activities in their schools.

Keywords: Environmental education, Birds, San Miguel de Parada Wildlife Refuge.



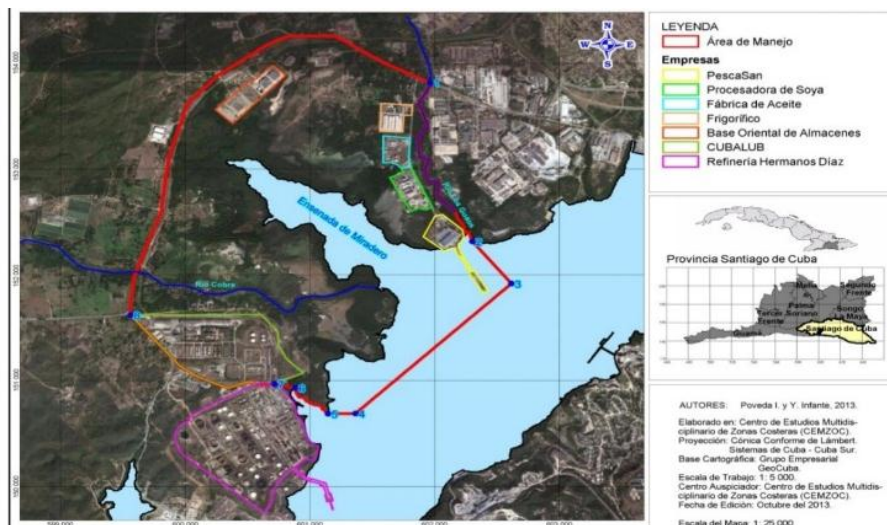
Introduction

The implementation of this project constitutes a very important environmental education instrument to help raise awareness by children, youth and the community in general, about the need to care for and protect birds.

Cuba birds are one of the groups of terrestrial vertebrates with the greatest diversity. Until today, 371 species belonging to 21 orders, 67 families, are registered. The endemism is 7.7%. 26 endemic species are recognized (Tocororo; Cartacuba; Gavilán Caguarero; Sinsontillo; Gavilán Colilargo, the Zunzuncito, the Catey, the Churroso Woodpecker, the Partridge Pigeon and the Mayito de Ciénaga), which, like migratory species such as the tile, the butterfly and others are exposed to natural threats such as intense rains and hurricanes, fire, extended periods of drought and anthropogenic such as the loss of nesting and feeding sites and illegal capture, which very frequently can be observed even adults with caged birds. For this reason we gave ourselves the task of using the pedagogy of learning by doing and learning by reflecting supported by the tools provided by "The Teaching of Ecology in the Schoolyard" by Peter Feinsinger and Popular Education, we carried out a series of activities to raise awareness among the residents of the communities surrounding the San Miguel de Parada Wildlife Refuge. A great dissemination was made about the value of birds, their importance and their natural wealth, which in many cases are very necessary to maintain the ecological balance, which directly and indirectly also improves our quality of life. We were able to verify that knowledge is very important for conservation, because the more we know and become familiar with, the more we contribute to its conservation.

AREA WHERE THE PROJECT WAS EXECUTED

The San Miguel de Parada Wildlife Refuge is located east of the Santiago de Cuba province. A total of 12 unique mangrove phytocenoses of this ecosystem are represented in this area (Reyes, 2009). Despite its small size, it contains high biodiversity values, especially as a refuge for migratory waterfowl that use its mangrove forests, inland lagoons and salt marshes as feeding and resting areas.





Results of the Project

From January to April, a series of activities were developed to encourage children, youth and the community in general, such as:

Observaciones de aves (7), in which first the correct way to use binoculars was explained to them, during the observation the children must recognize the observed bird, imitate the song and say some characteristic of that bird, as well as whether it was endemic or migratory. On the other hand, they are insisted on the importance of birds for the life of man and nature for the ecosystem services they provide.

Juegos con el parchís (6). This game has a very peculiar shape, it is related to the birds of the Wildlife Refuge and in addition to walking with the dice, it has some cards that according to the orders can walk other squares or can go backwards.

Juegos con las solteronas (7). This game is very similar to the traditional game, it is only with the images of the endemic birds and whoever gets the card that has all the endemic birds loses.

Juegos con sopa de letras (9). Here you should find 16 endemic bird names.

Juegos con crucigramas (9). In this game they must put the name of the endemic birds that are marked in the photos.

They were also distributed **plegables y boletines** with the characteristics of the protected area and the different birds that we can find in the Refuge .

Se realizaron **5 programas radiales y 1 programa televisión**

A curricular program of Environmental Education was carried out for the América Labadí elementary school, in which it can be applied in any subject and all of them contribute to the protection and conservation of birds.

Observaciones de aves



Juegos con el parchís



Juegos con solterona



Cantidad de participantes

Cantidad de personas	Adultos	niños	jóvenes
205	48	103	54

Referencias bibliográficas

- UNESCO. (2004). Esquema internacionalde Implementación para la Década de la Educación para el Desarrollo Sostenible.
- Colectivo de autores. Observaciones de aves silvestres, asociadas a los humedales, en Del Río, Norma. Ampliando el entorno educativo del niño UAM, México 2000 p-31-43.
- Colectivo de autores. La observación de aves.Educre, vol 15 núm 52, sep-dic 2011, pp. 543-650. Universidad de los Andes, Mérida, Venezela.
- Orlando H. Garrido y Arturo Kirkconnell. Aves de Cuba 2012.
- Colectivo de autores. Educación ambiental, un recorrido para la transformación ciudadana. Revista de la Secretaría de Extensión Tecnológica. Tekohá, vol.1, No 4
- Colectivo de autores. Aves silvestres más capturadas ilegalmente en Cuba. Guía de identificación. 2020.
- Nils Navarro Pacheco. Lista anotada de aves de Cuba 2021. Edición # 4. Ediciones Nuevos Mundos.

Utilization of the assigned budget

Equipment and materials	Quantity	Cost of National Currency in (CUC)	1cuc = 25 MN	Cost USD (Exchange rate 1 USD x 25 MN)	Total	Purchase source
Colored pencils	50	1	1250	50	50	centros comerciales
Leaves	3	4	300	12	12	centros comerciales
Pencil	100	0.5	1250	50	50	centros comerciales
Crayons	50	2	2500	100	100	centros comerciales
Colored down	50	2	2500	100	100	centros comerciales
Digital camera	1	150			150	Wwwamazon.com
Folding printing	100	1	2500	100	100	Centros de impresiones
Printing newsletters	150	0.50	1875	75	75	Centros de impresiones
Loose print	200	0.25	1250	50	50	Centros de impresiones
Logistics and transportation for activities					312	centros comerciales
Total					999	