

Project report

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Project title: Systematics of the genus *Oxacis* LeConte (Coleoptera: Oedemeridae)

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The present document summarizes the activities performed during my stay at the Florida State Collection of Arthropods (FSCA):

1° Taxonomic identification of the specimens of Oedemeridae

The curatorial activities about Oedemeridae of the FSCA was a challenge, not only because of the large number of specimens in the collection, also, because it has material entomological from different biogeographical regions: America, Europe, Asia y Oceania. So, the specimens reviewed were determined at the genus level.

2° Arrangement of the *Oxacis* collection (male and female designation)

The specimens of the FSCA were labeled and separated by sex. This is relevant because many of the species have been described from a few single-sex specimens and most species of this genus have a sexual dimorphism.

3° Separation of *Oxacis* specimens

A representative sample of the specimens belonging to different *Oxacis* species of the FSCA was taken in account for the subsequent coding of characters for a phylogenetic analysis that is the main subject of my doctoral thesis.

4° Digitization of the specialized literature of the Oedemeridae family.

The FSCA has a significant amount of bibliographic material about Oedemeridae, that includes works made by the principal investigator in America (R. H. Arnett, Jr.), and historical material of other authors, descriptions of genus and species, reviews, checklists, etc. However, a large number of these documents are not digitized. Therefore, one of the main objectives during my stay was to digitize this literature.



Figure 1. Working with the *Oxacis* specimens of Florida State Collection of Arthropods.



Figure 2. Working with the *Oedemeridae* specimens of Florida State Collection of Arthropods.