



Understanding the diversity and distribution of species on Earth is crucial in the face of contemporary threats to biodiversity, such as climate change and unsustainable economic practices. Unfortunately, the process of documenting and describing biodiversity often cannot keep pace with habitat loss and species extinction, especially in tropical regions where the number of undescribed and poorly known species is highest, and where biodiversity is most severely threatened. If this diversity is not documented, it will mean a loss of valuable understanding of the natural world and a failure to recognize species whose societal values remain undiscovered or underappreciated. This research will assess the extinction risk of selected fern species to understand their conservation status. The focus lies on understanding the classification, distribution, and conservation status of a group of species within the fern genus Elaphoglossum, the Elaphoglossum dendricola Clade, consisting of around 12 species distributed in the Tropical Andes, mostly at high altitudes (over 2400 m). This assessment aims to serve as a baseline for future conservation studies of this neotropical group of ferns.





Species selection Species of Elaphoglossum dendricola Clade







Online databases Online databases Herbarium specimens







Data quality assessment Correct species identities

GBIF

Global Biodiversity Information Facilitu

Georeference unspecified records



Uncertain occurrence points identification **GeoCat** (Geospatial conservation assessment tool) Avoid unlikely distributions based on taxonomic knowledge



Status assessment - GeoCat Of each species based on distribution range (B criterion) - EOO: Extent of occurrence

- Minimum convex polygon - AOO: area of occupancy
- Cell width of 2 km



6 Validation and adjustment



Assessing extinction risk for a group of neotropical ferns



Vulnerable $< 20,000 \, \text{km}^2$ < 2,000 km²

Red List: Categories of the IUCN (EX) Extinct (EW) Extinct in the Wild Critically endangered (EN) Endangered (VU) Vulnerable (NT) Near Threatened (LC) Least Concern Data Deficient (DD) (NE) Not Evaluated



Results





Discusion