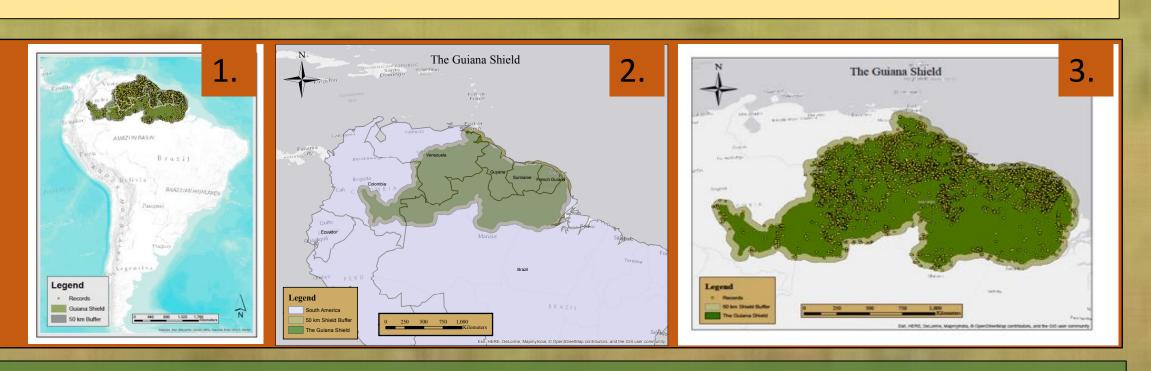
# Introduction

- The Guiana Shield is one of the least explored areas in the world spanning 2,287,859 km<sup>2</sup> across parts of Venezuela, Brazil, Colombia, Guyana, French Guiana, and Surinam (Hammond, 2005).
- It is best known for the prominent 'tepuis' sheer sided mountains found in the highlands—and high biodiversity and endemism (Maguire, 1970).
- Here, we present results from a preliminary investigation of the nature and sources of this diversity using specimen data collected by the Biological Diversity of the Guianas Program and DNA sequence data from Genbank.
- 1) Location of the Shield (2) Shield outline (3) Distribution of *herbarium samples* from the Shield



## Methods

- The geographic extent of the shield used in theses analyses follows Gibbs and Baron, 1994.
- DNA sequences from NCBI Genbank (atpB, trnK, matK, ndhF, rbcL, rps4, trnL) were aligned with MAFFT and manually edited with AliView.
- Phylogenies were generated with RaxML
- Spatial data were cleaned using a custom R-based spatial data cleaning pipeline, OpenRefine and Excel, then analyzed using ArcGIS and Biodiverse.

(4) matK Phylogeny of taxa from the Shield	



