Maps & Data Processing Steps

Conservation Funding of Africa Map

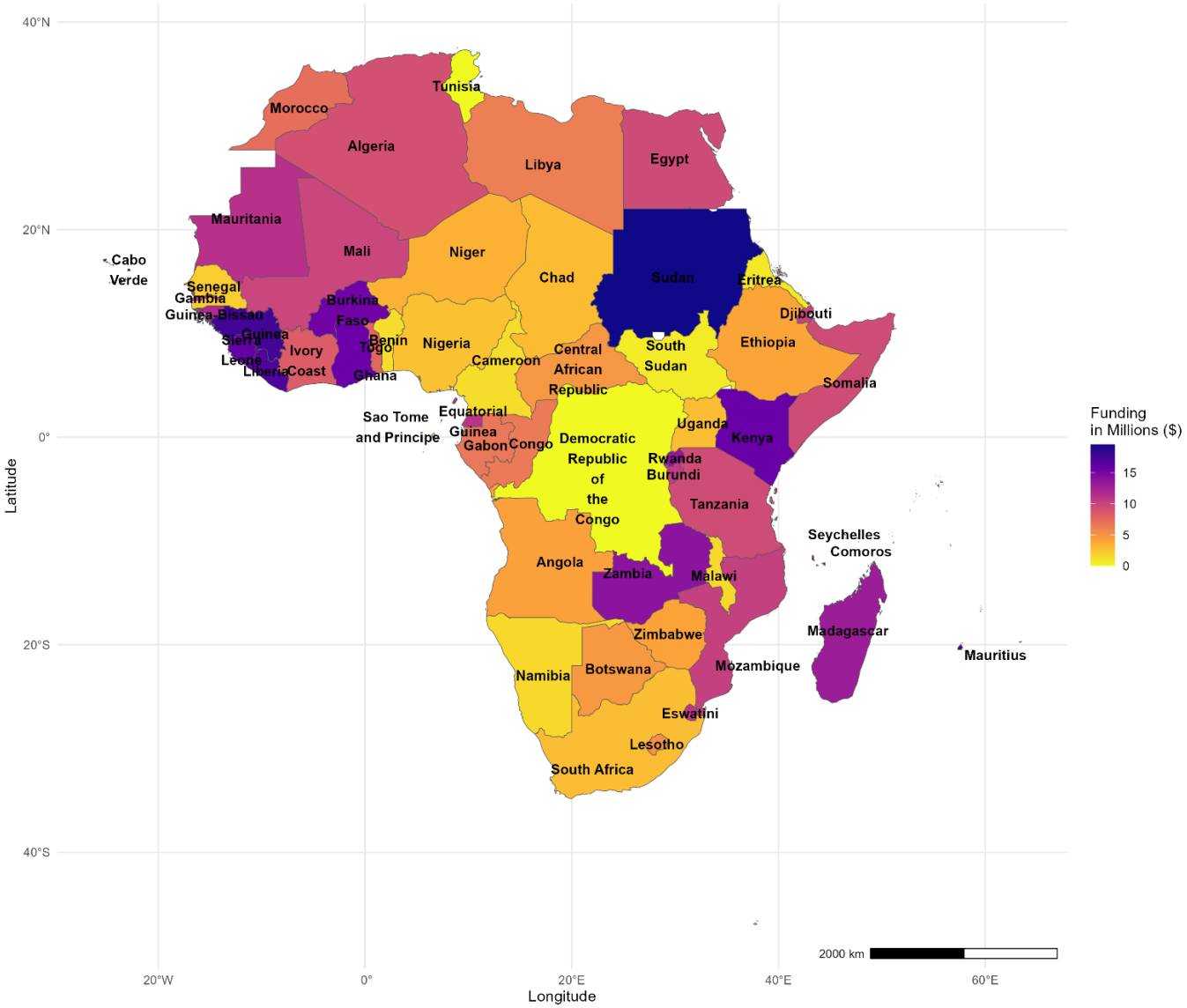

Figure 1: The map of conservation funding allocation in Africa ($).

The biodiversity of African Countries Map

Figure 2: The map of biodiversity (species richness) in Africa

The Map of Biodiversity intactness in Africa

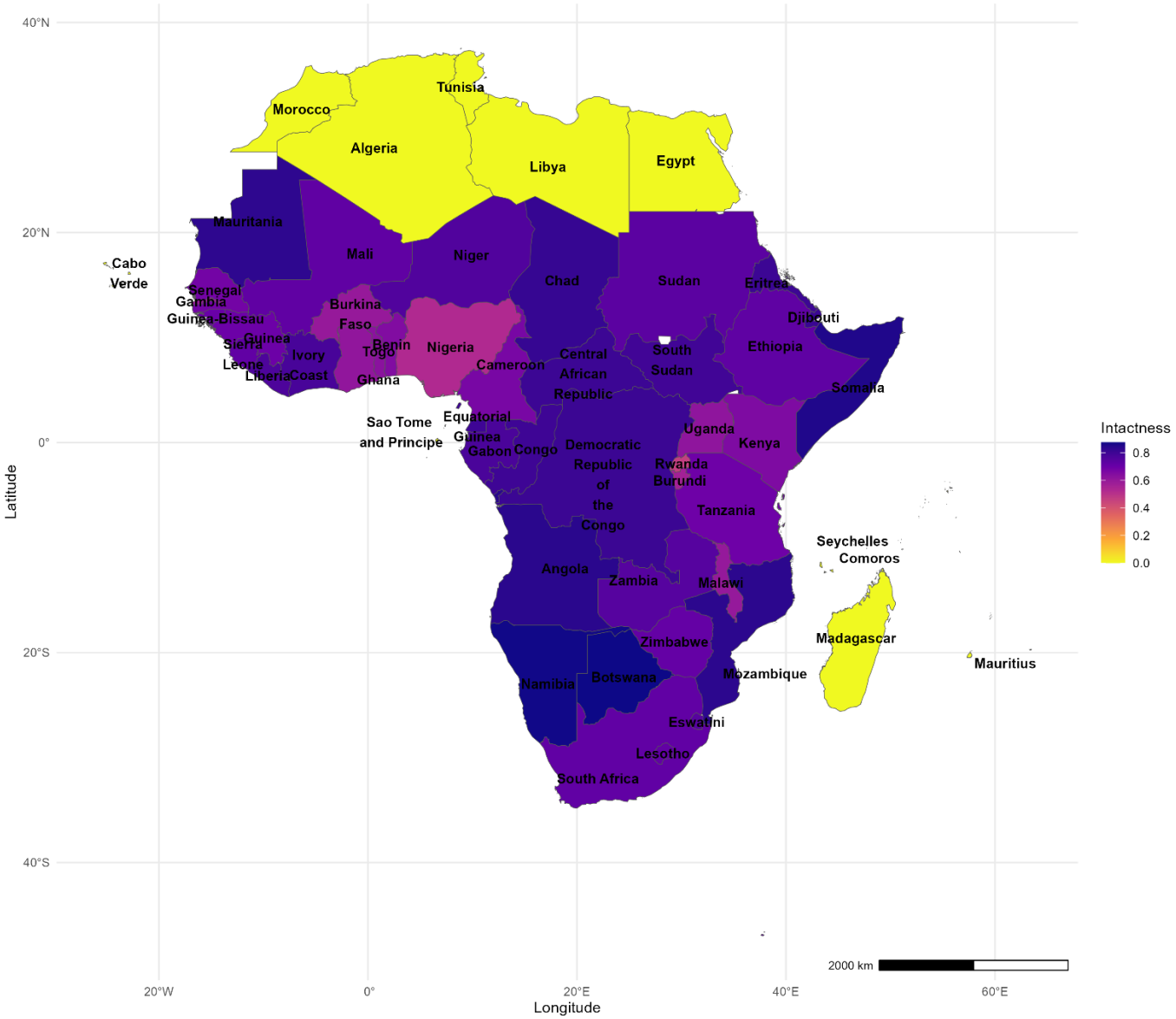

Figure 3 The map of biodiversity intactness in Africa

Data Processing

All data clean, collation and Mapping was don't on R. The full data processing steps are available in the RMarkdown file, with the script annotated for easier understanding. This file is stored in a GitHub repository to ensure reproducibility and facilitate collaboration.

- The funding CSV file and the diversity XLSX file were merged into a single dataframe, combining both data sources.
- The spatial objects were imported into R, where the shapefile of all African countries was used to extract the intactness values. Note that data for many North African countries were not available for the Intactness Index.
- The conservation funding, species richness, and intactness columns were then joined to ensure that all these variables were in the same spatial dataframe.
- After preparing the data, visualizations were created using ggplot. Here, some country names (polygons) were repositioned, so they appeared in the correct geographical locations.