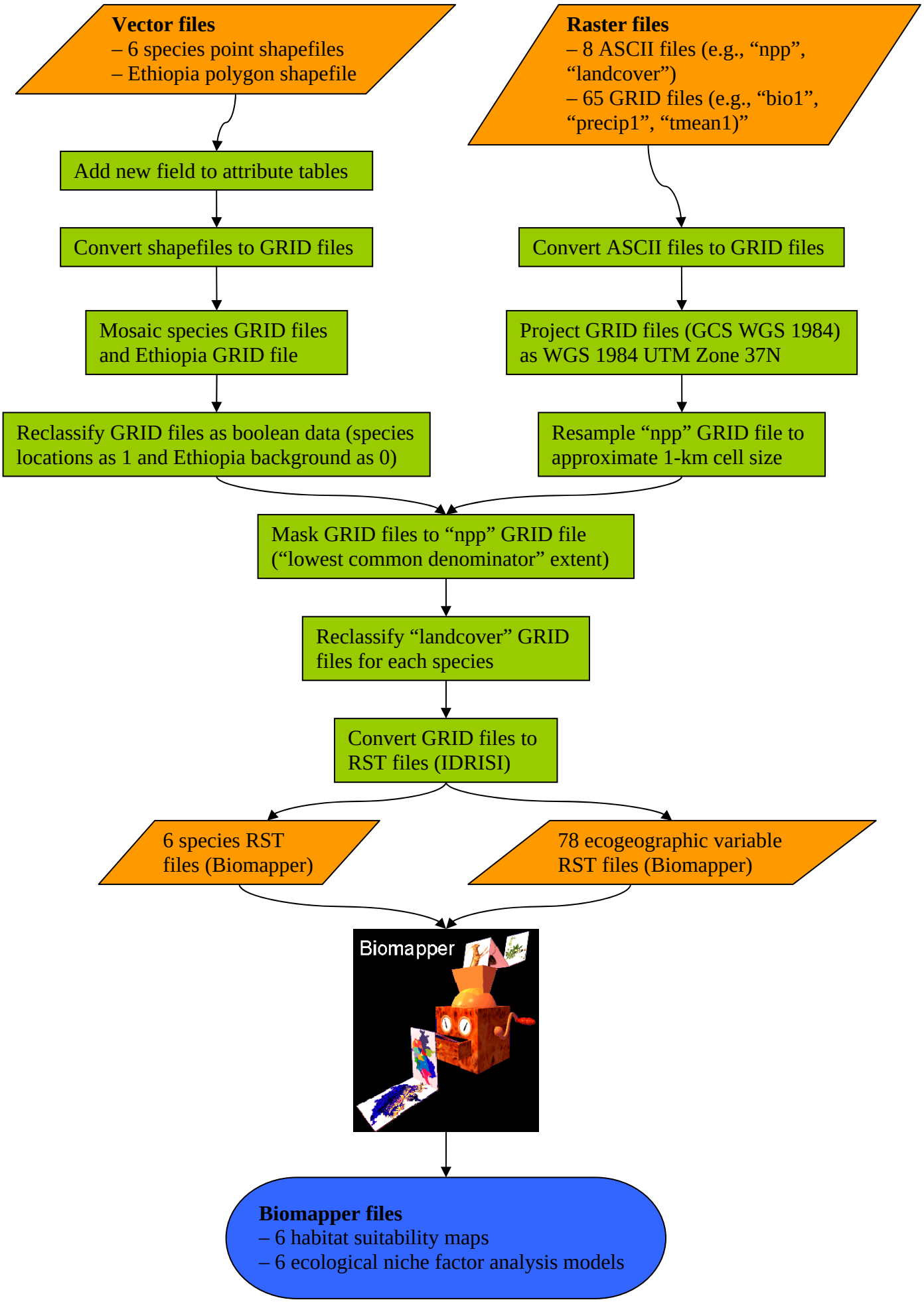
Vector files
– 6 species point shapefiles
– Ethiopia polygon shapefile
Raster files
– 8 ASCII files (e.g., “npp”, “landcover”)
– 65 GRID files (e.g., “bio1”, “precip1”, “tmean1)”
Add new field to attribute tables
Convert shapefiles to GRID files
Convert ASCII files to GRID files
Mosaic species GRID files and Ethiopia GRID file
Project GRID files (GCS WGS 1984) as WGS 1984 UTM Zone 37N
Reclassify GRID files as boolean data (species locations as 1 and Ethiopia background as 0)
Resample “npp” GRID file to approximate 1-km cell size
Mask GRID files to “npp” GRID file (“lowest common denominator” extent)
Reclassify “landcover” GRID files for each species
Convert GRID files to RST files (IDRISI)
6 species RST files (Biomapper)
78 ecogeographic variable RST files (Biomapper)
Biomapper
Biomapper files
– 6 habitat suitability maps
– 6 ecological niche factor analysis models