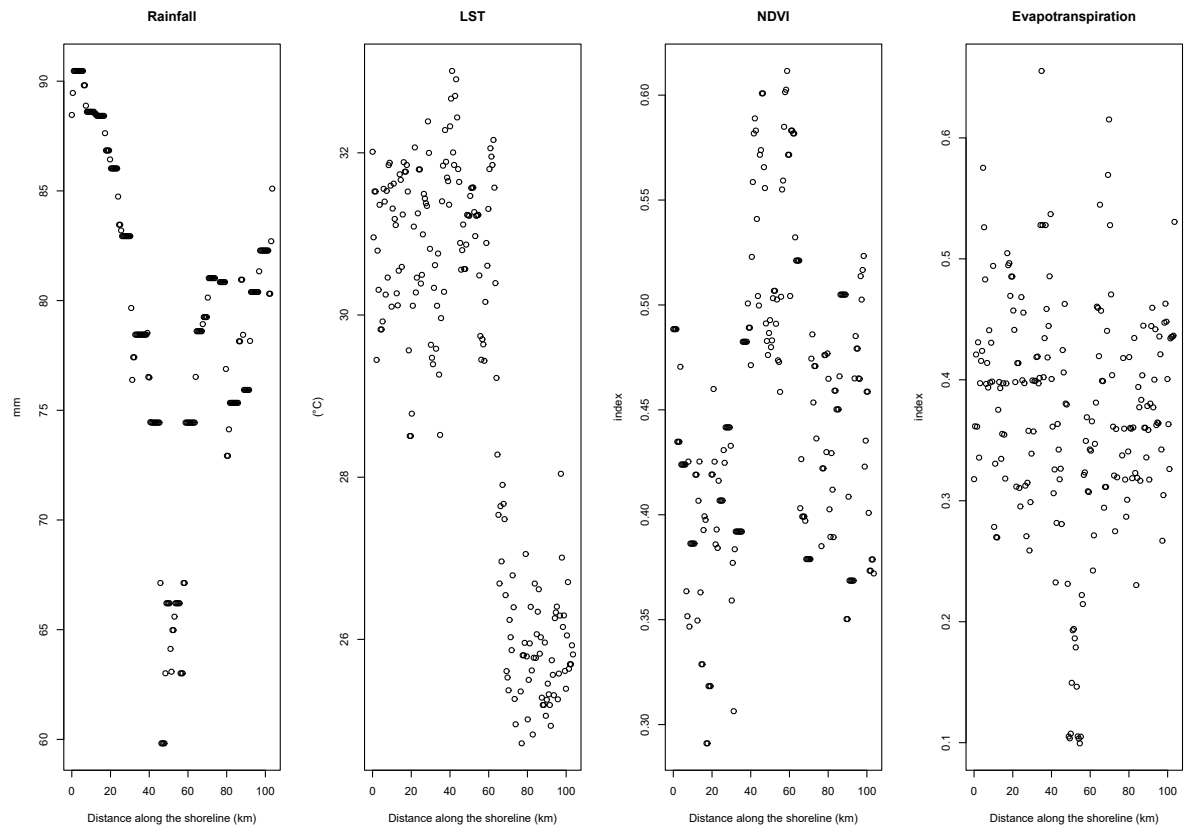
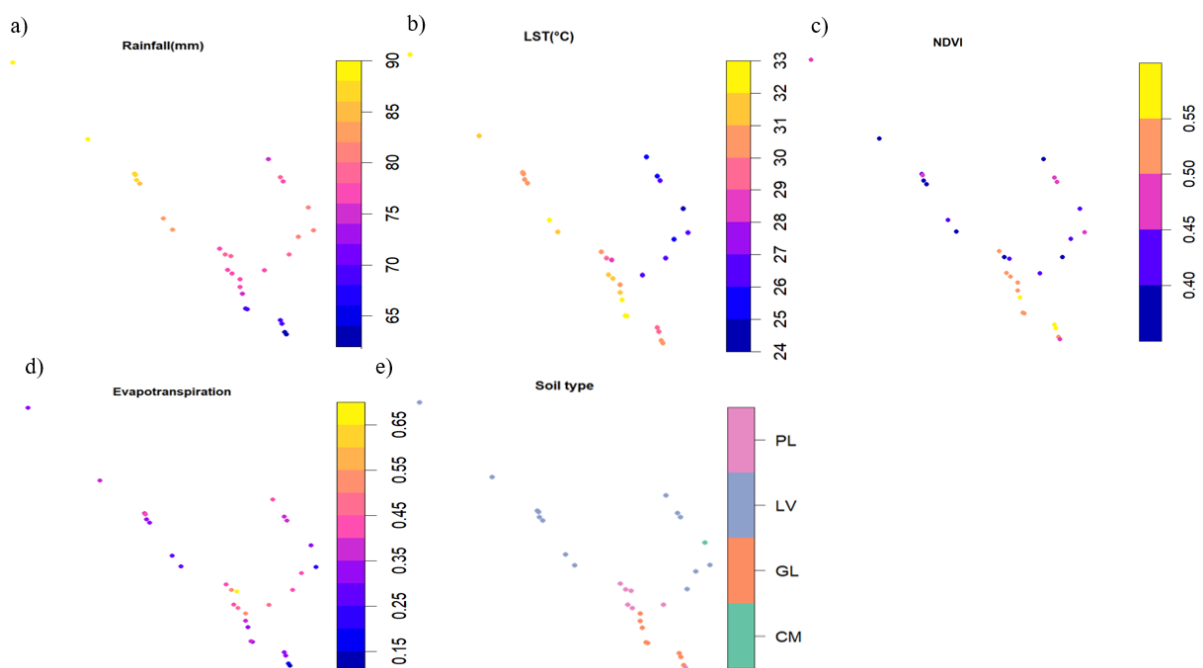


*Additional file 4: Supplementary information*

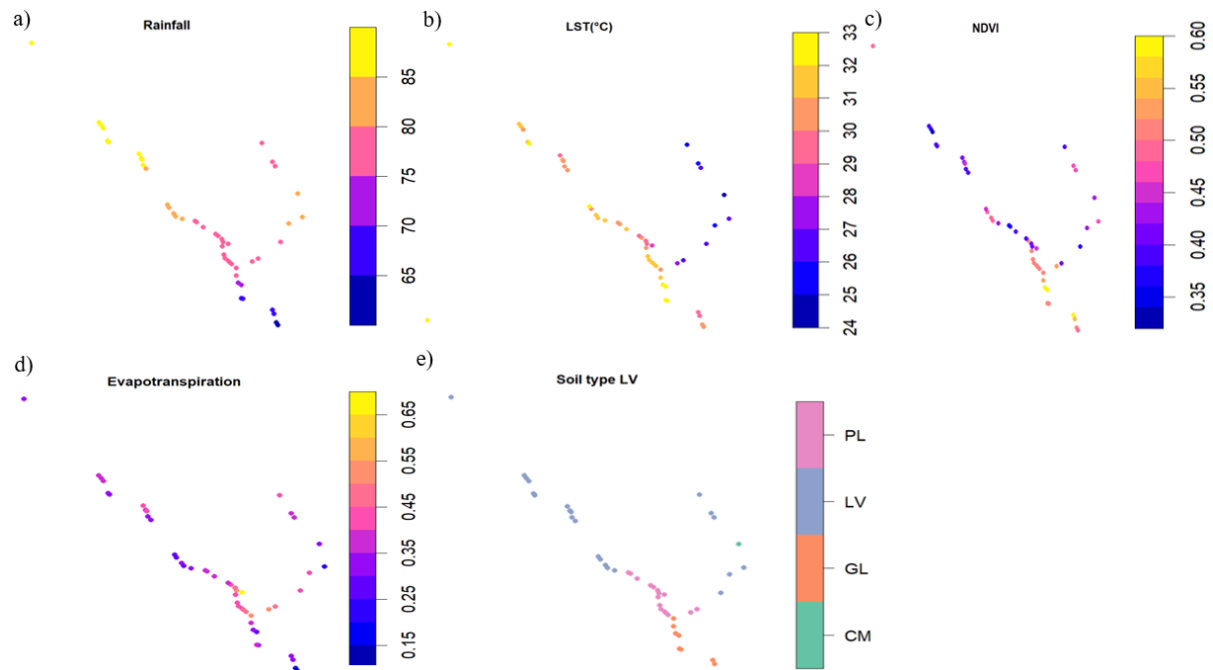
**1D extracted environmental data**



**Figure S1:** Scatterplot of environmental data versus distance along shoreline (km) for prediction points



**Figure S2:** *Biomphalaria* sp. observed sample points extracted environmental data a) Rainfall (mm) b) LST (°C) c) NDVI (index) ) Evapotranspiration (index) e) Soil type



**Figure S3:** *Bulinus* spp. observed sample points extracted environmental data. a) Rainfall (mm) b) LST (°C) c) NDVI (index) ) Evapotranspiration (index) e) Soil type