

Modelling mountain micrefugia - suitable sites for mountain forests in the shifting climate

Johanna Toivonen, University of Turku, Finland
jomito@utu.fi

Microrefugium = locally suitable site for the vegetation in long-term

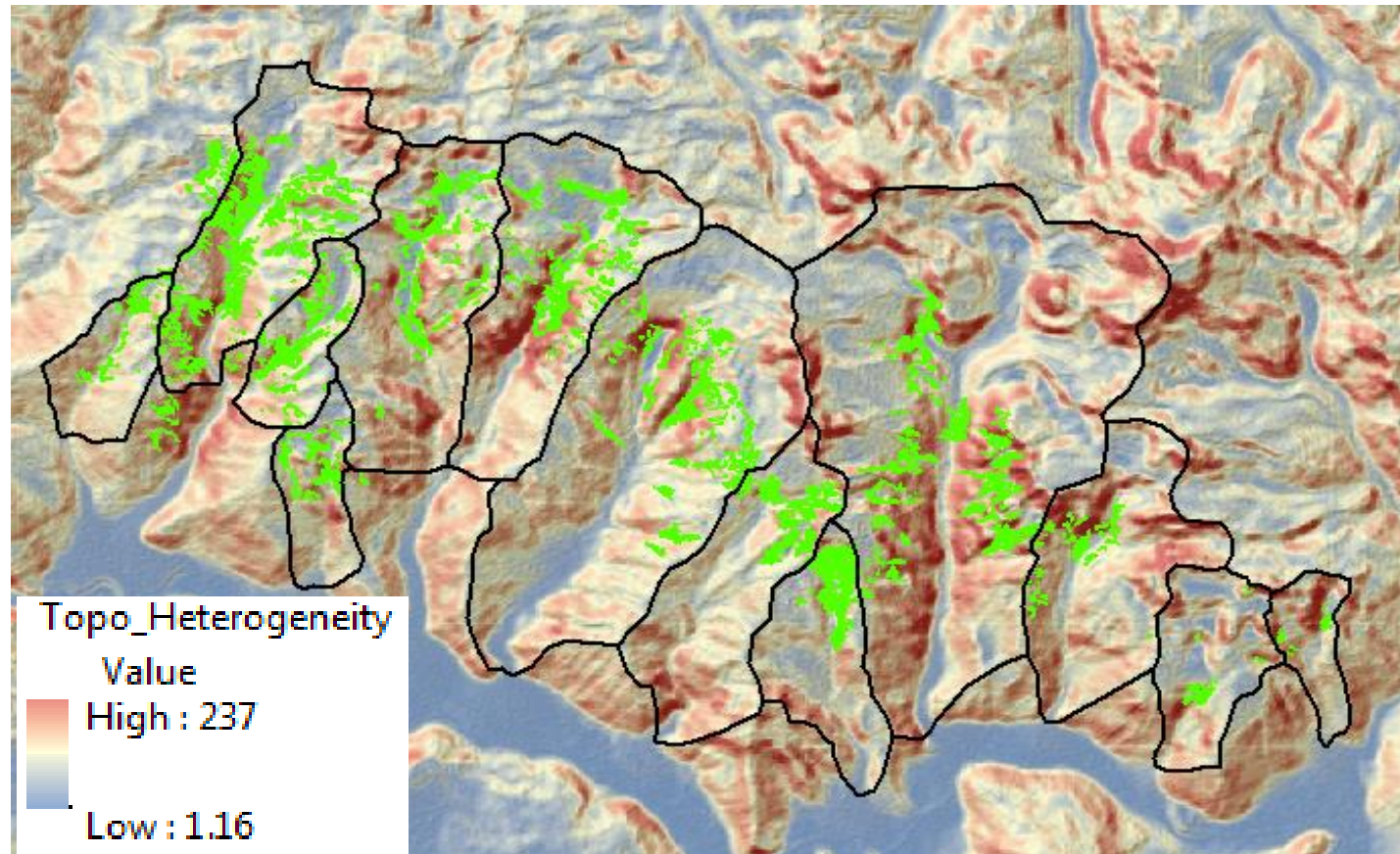
Microrefugial areas = areas (watersheds) with suitable sites in close proximity allowing relocations when conditions change



Importance for the forest management:
Priority areas for conservation and restoration

How to model potential microrefugial areas for the Andean treeline forests?

- Topographic heterogeneity as a main driver (also other factors such as soil formation and water availability)



Locally (within a watershed) important to consider:

Possibilities for relocations when conditions change?

- The current distribution
- Connectivity between the current sites and potential microrefugia

