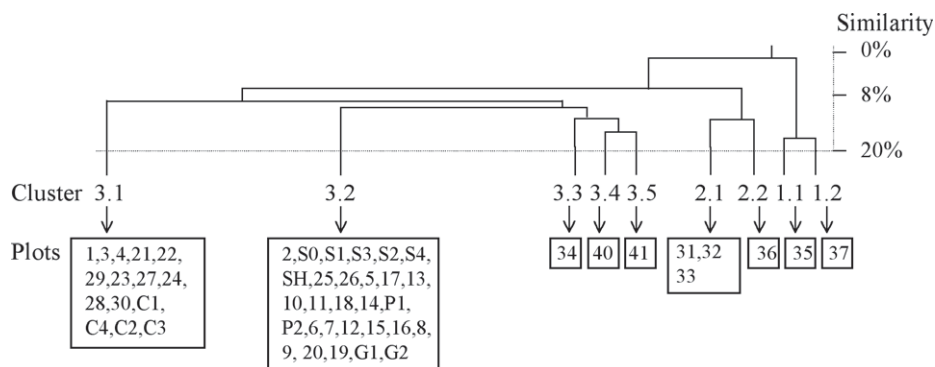


**App. 1.** Geologic types in the Panama Canal Watershed.

Grouped classes	Unit name	Geologic Series	Description
Chagres sandstone	Chagres sandstone	Late Miocene or Early Pliocene	Massive, generally fine grained sandstone
Toro limestone	Toro limestone (basal member of Chagres sandstone)	Late Miocene or Early Pliocene	Coquina
Basaltic formations	Miocene basalt Pre-Tertiary basalt	Middle to Late Miocene Pre-Tertiary	Intrusive and extrusive basalt Altered basaltic and andesitic lavas and tuff, includes dioritic and dacitic intrusive rocks
	Bohio formation	Early to Late Oligocene	Conglomerate, principally basaltic and graywacke sandstone
Ancient non-basaltic formations	La Boca formation	Early Miocene	Siltstone, sandstone, tuff and limestone
	Las Cascadas formation	Early Miocene	Agglomerate and tuffaceous siltstone, tuff, and foraminiferal limestone
	Caimito formation	Late Oligocene	Tuffaceous sandstone, tuffaceous siltstone, and foraminiferal limestone
	Gatuncillo formation	Middle to Late Eocene	Mudstone, siltstone, quartz sandstone, algal and foraminiferal limestone
	Marine rocks	late Eocene	Sandstone and siltstone

**App. 2.** Hierarchical agglomerative clustering method applied to the Jaccard index of similarity among pairs of Marena plots, using a proportional-link linkage algorithm. The connectedness level was set to 0.5, which is a mid-way between single and complete linkage.



**App. 1 and 2.** Internet supplement to:

Chust, G.; Chave, J.; Condit, R.; Aguilar, S.; Lao, S. & Pérez, R. 2006. Determinants and spatial modeling of tree  $\beta$ -diversity in a tropical forest landscape in Panama. *J. Veg. Sci.* 17: 83-92.