

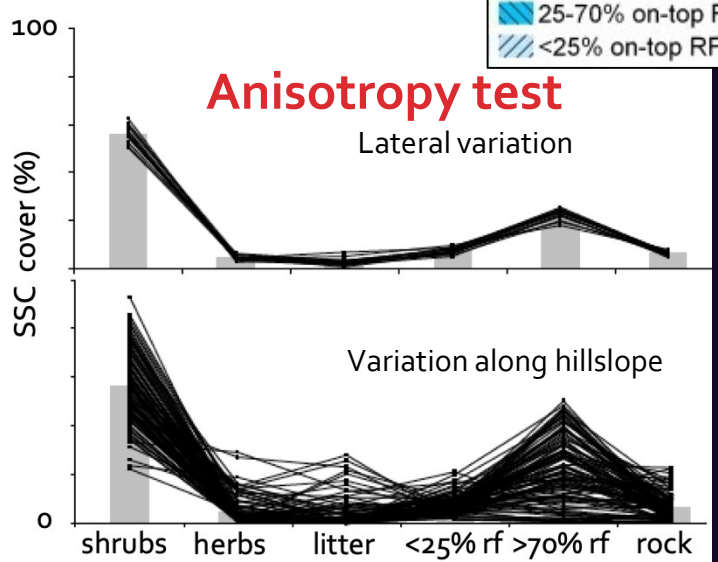
Soil surface spatial heterogeneity along hillslopes under inspection: a 1D approach

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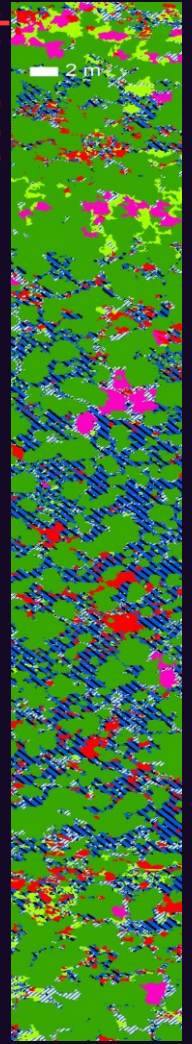
SOIL SURFACE COMPONENTS RATIONALE (SSC)

Vegetated Domain		Non-Vegetated Domain	
Herbaceous Veget. ... dominant species	Died plants Litter	>70% On-top Rock Frag.	
Shrub Vegetation ... dominant species		Bare soil 25-70% (y/n physical crust)	< 25%
Arboreal Vegetation ... dominant species	Dry... plants remains	>70% Embedded Rock Frag.	
Biological Soil Crusts (BSC)		Bare soil 25-70% (y/n physical crust)	< 25%

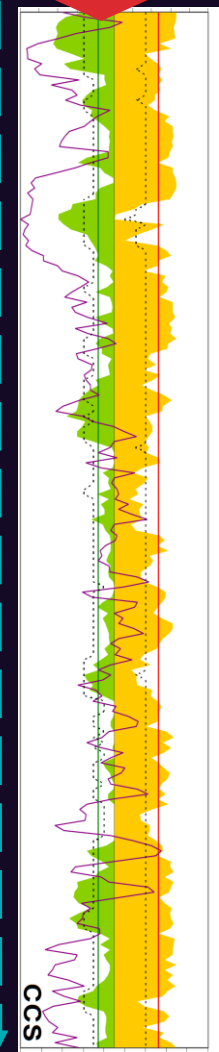
- | | |
|---|--|
| <ul style="list-style-type: none"> Litter Brachyp. retusum Stipa tenacissima Shrubs Pinus halepensis | <ul style="list-style-type: none"> Rock outcrops >70% embd. RF 25-70% embd. RF <25% embd. RF >70% on-top RF 25-70% on-top RF <25% on-top RF |
|---|--|



SSC map

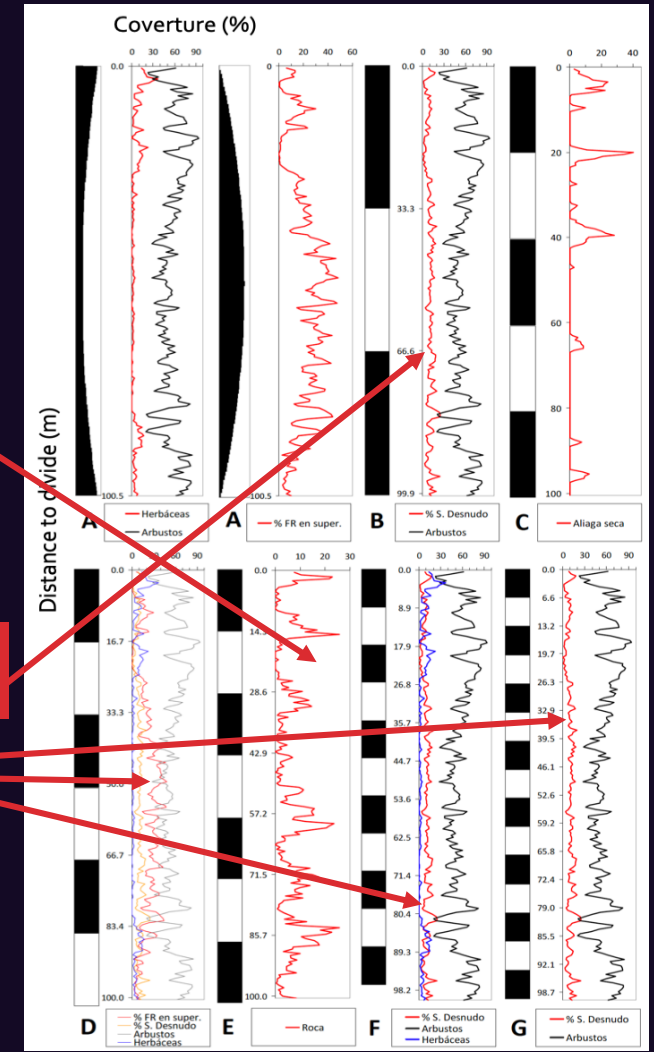
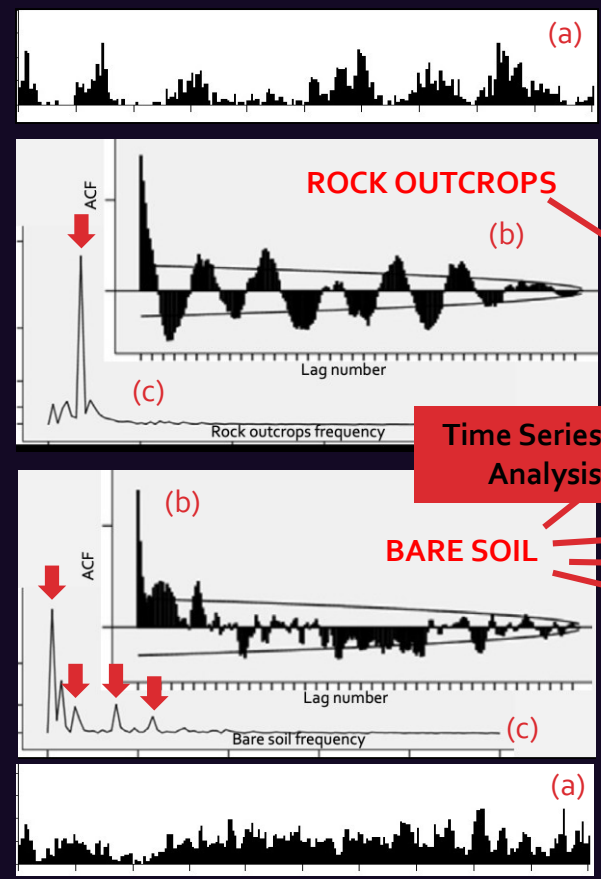


HETEROGENEOUS?
= COMPOSITION



biotic & abiotic SSC
Simpson diversity Index
distribution

RANDOM / PATTERNED?
= CONFIGURATION



PATTERNED at multi-scale
 Coverage (%) for each SSC along **HIERARCHICAL**
 the hillslope by periodicity degrees, showing **LEVELS**
 the SSC occurrence and association.
 (modified from Arnau, 2015)