

BIRD'S EYE VIEW ON STEEP TOPOGRAPHY

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Robin
Erithacus Rubecula
Bird of the Year 2021

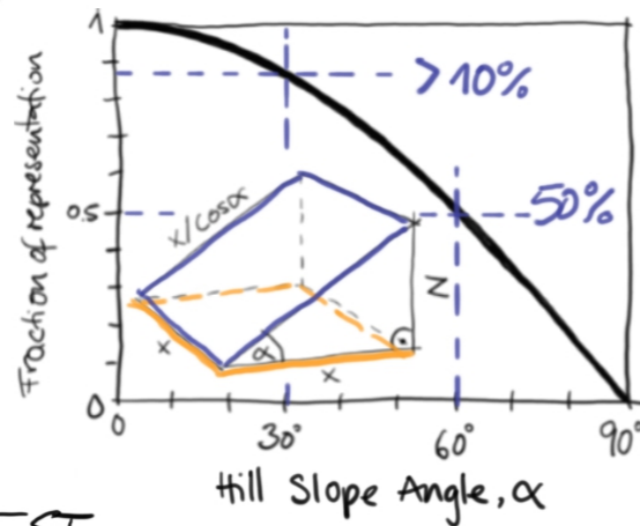
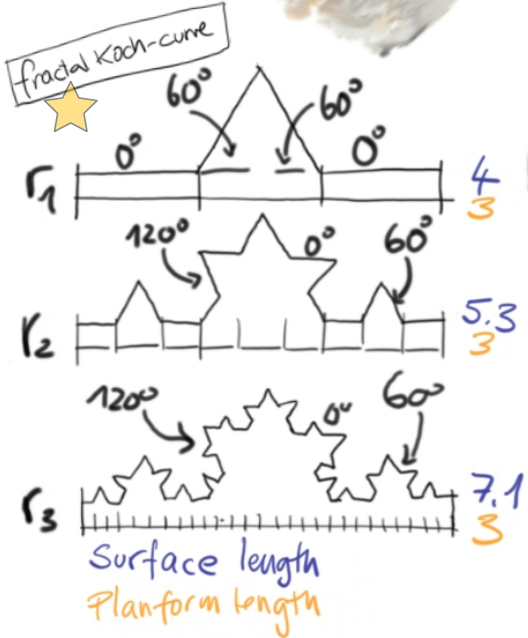


BIAS: ★

resolution • representation • projection

CAUSE: ★

surface ≠ planform • projection 3D → 2D



Trigonometric exercise ★

RESULT: ★

A real world example

HALF DOME

IMPLICATION ★

FOR GEOMORPHOLOGISTS:

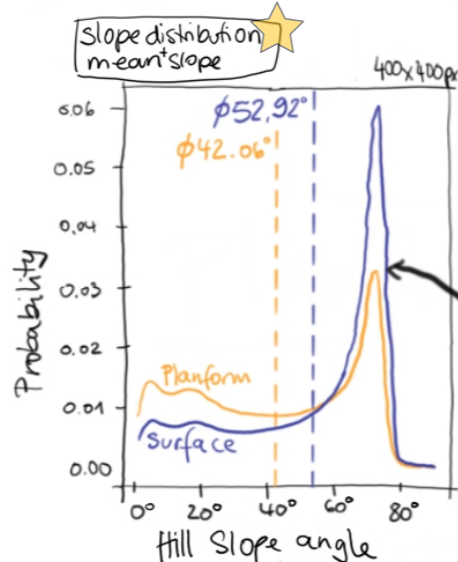
- make (unconscious) bias explicit!
- need to define relationship of Process + Area: Planform or Surface area
- ...

FOR GEOMORPHOLOGY:

- reevaluation of results subject to the biases
- reconsideration of topographic metrics as proxy + thresholds of processes
- ...

TEST:

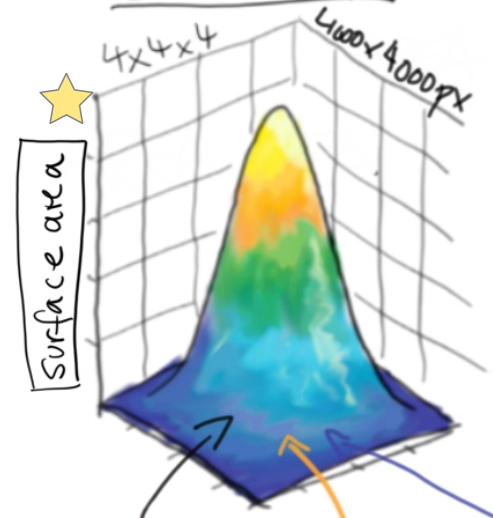
Do biases matter? • solutions?



A possible solution

A mathematical landscape

Gaussian Hills:

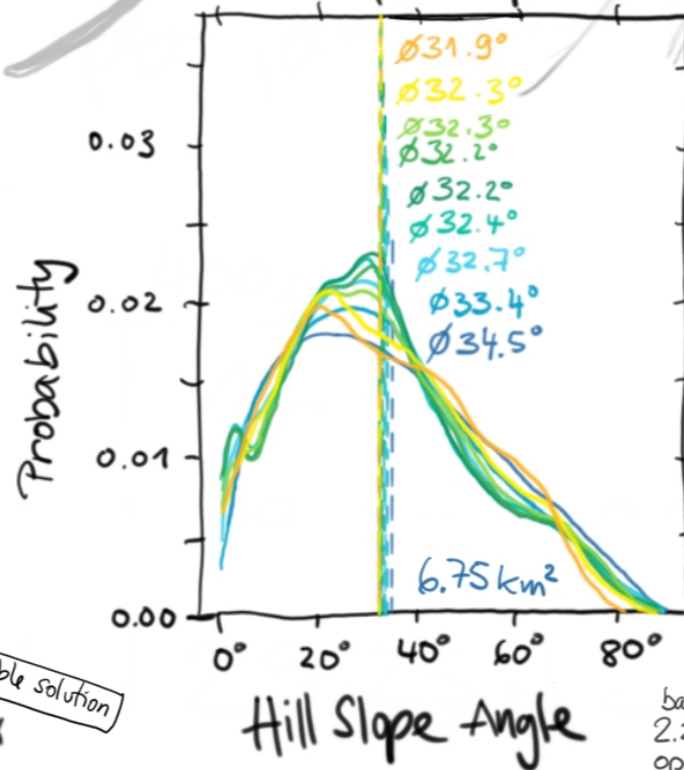


29.25 Analytical Planform

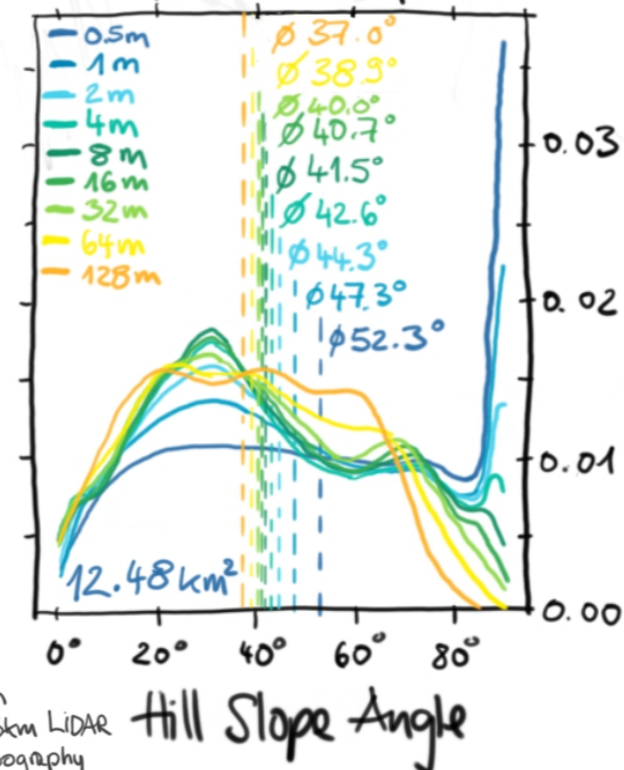
16.00 Surface

29.26

Planform-Slope PDF



Surface-Area-Slope PDF



DISCUSSION:

→ CHAT ROOM GM2.7
Mon, 26 April 2021
09:00 - 12:30 (CEST)

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