Geophytes in time and space

Singels E., Esler K.J., Parkington J.

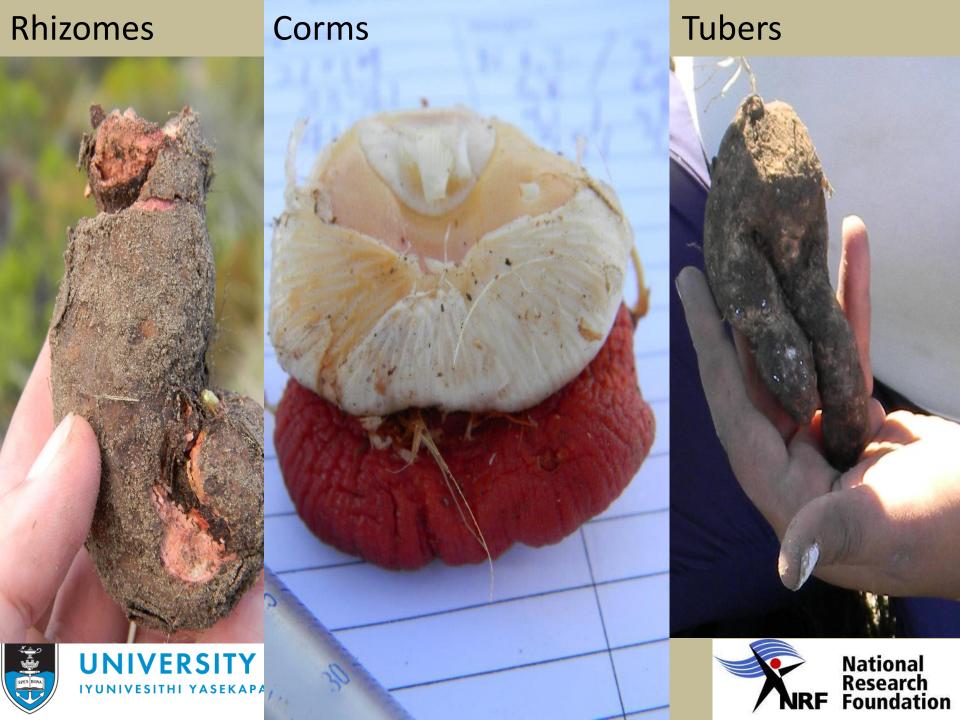
Department of Archaeology, University of Cape Town, South Africa E-mail: elzanne.singels@gmail.com image from Vinnicombe, 1976

Resources available for survival

- Protein Resources: Aquatic/Terrestrial
- Wood Resources
- Plant Resources?
- 1. Fruit/Vegetables
- 2. Geophytes (Underground Storage Organs)







Geophyte foraging in time:



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Quintessential for geophyte foraging

- Botanical knowledge: taxa and veg types
- Knowledge of climate
- Tools
- Processing

Centuries of knowledge and experience

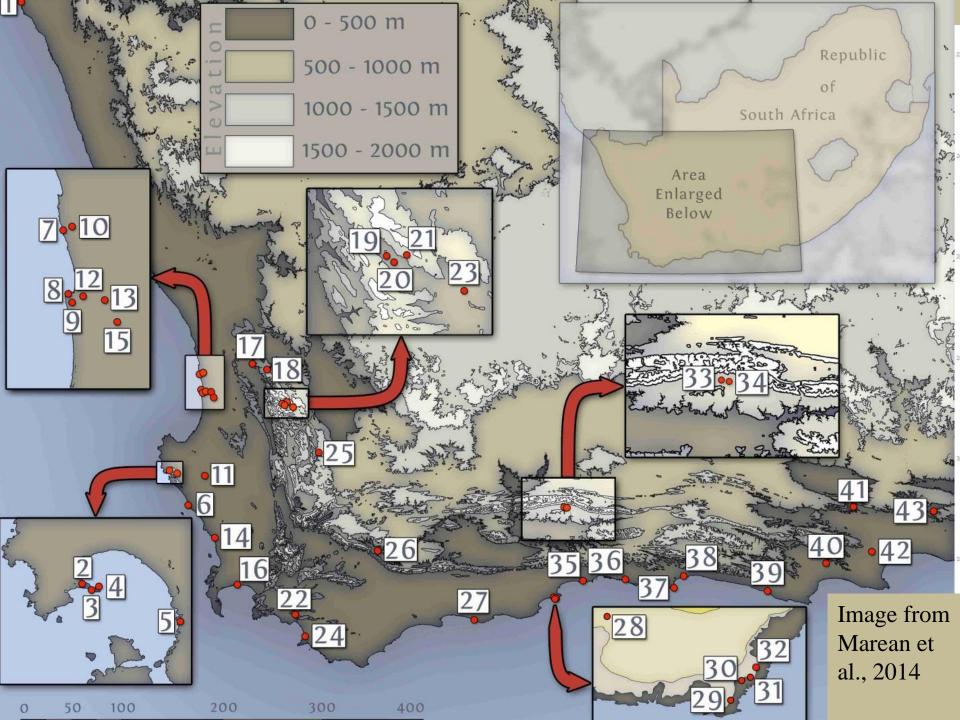


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Evidence in the Stone Age Cape

- Geophyte remains
- Digging Sticks
- Digging Stones
- Adze





Geophyte remains

- Vast amount of evidence in LSA
- Mostly inland sites





Digging Stick ,Bored Stones and

<u>Adze</u>

- Digging Stick: sharpened constantly
- Adze had to be developed
- Bored stone for extra momentum
- Time consuming to produce





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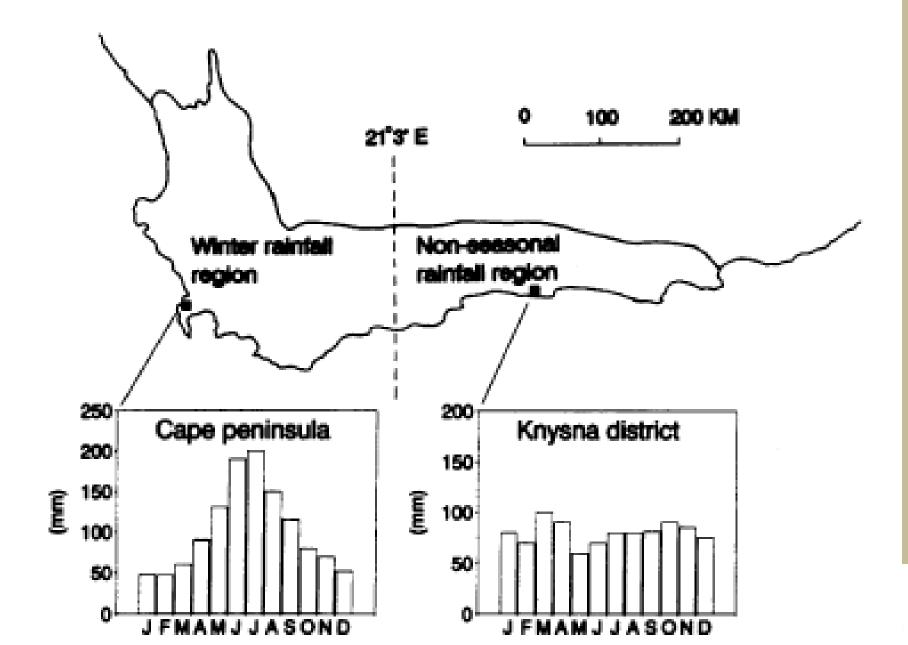
Geophyte resources and space

- How would geophyte foraging vary over the GCFR
- Various rainfall regimes: Diversity and Phenology





Johnson, 1992



Phenology in time and space



West Coast, South Coast, Eastern Cape







Bushmen came to me at home, requesting, and indicating that they needed leave from school (as they called it), with the aim to go and gather ants (HvV: meaning here ant-eggs) and *uintjies*, their most favourite food which at this time is particularly abundant and which they eat raw or roasted].

Erasmus, 1815 Eaten Raw/Roasted in the coals

occasions brought back to the cave. Here they may have been ground and roasted as small cakes on the coals. It has been suggested by Grevenbroek

Parkington & Poggenpoel, 1971 Knol Cakes







Summary

- Rare in the MSA, widespread in LSA
- Phenology forced a narrow time frame
- Requires incrementally built knowledge
 - Geophytes importance might have varied

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