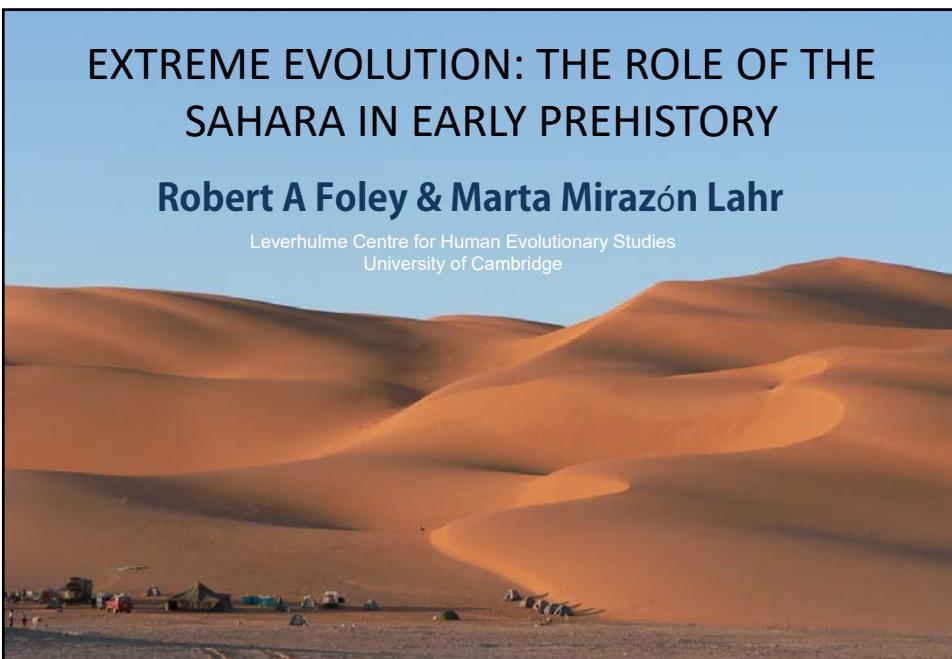


**EXTREME EVOLUTION: THE ROLE OF THE  
SAHARA IN EARLY PREHISTORY**

**Robert A Foley & Marta Mirazón Lahr**

Leverhulme Centre for Human Evolutionary Studies  
University of Cambridge



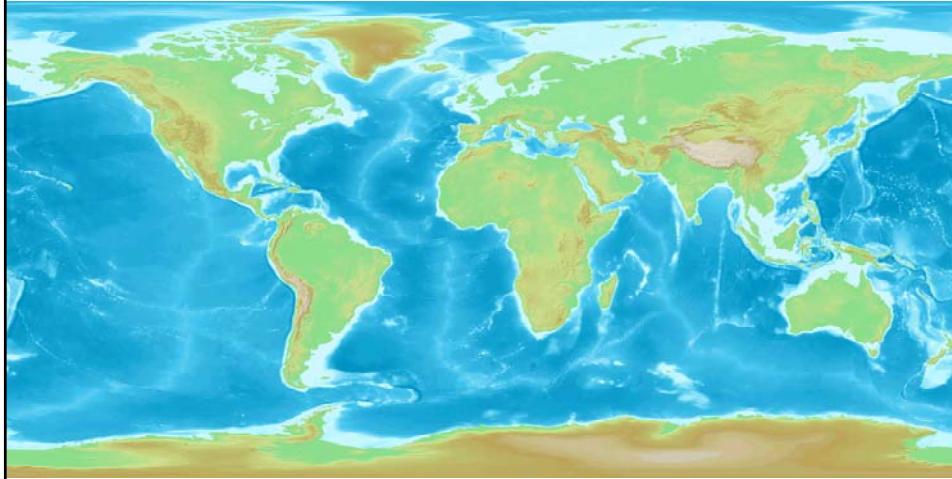
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**The Lonely Planet Guide to Good Human  
Origin Hotels**



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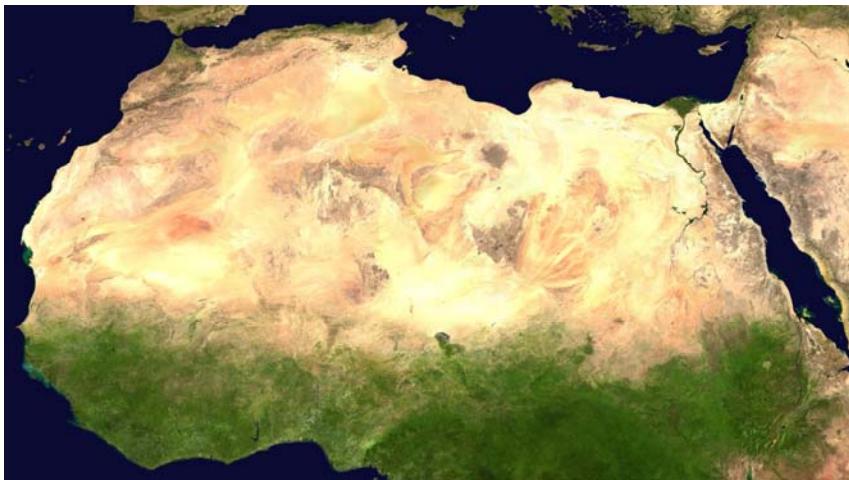
Different places, different questions



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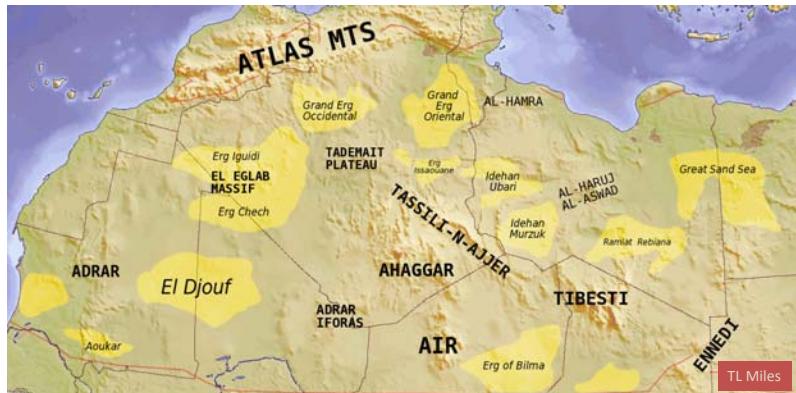
The Sahara



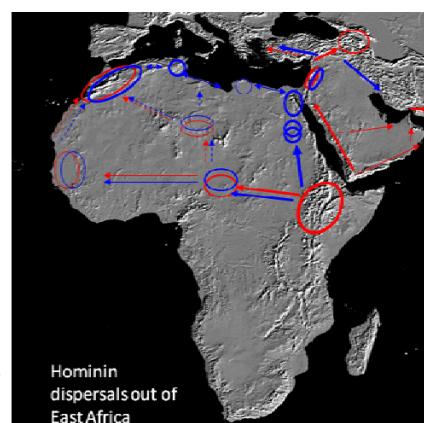
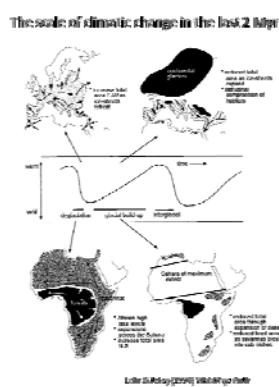
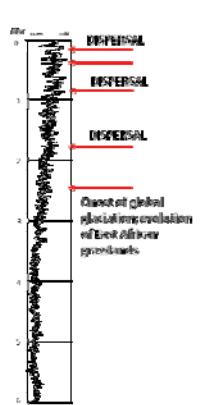
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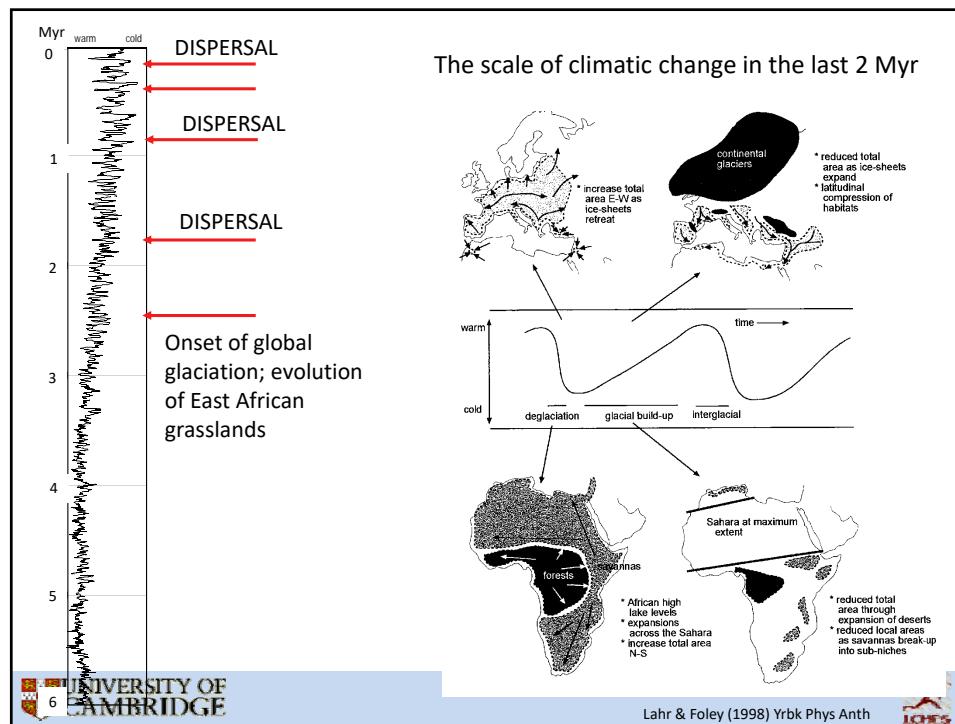
## The Sahara



## Evolutionary geographical questions



Lahr, 2010

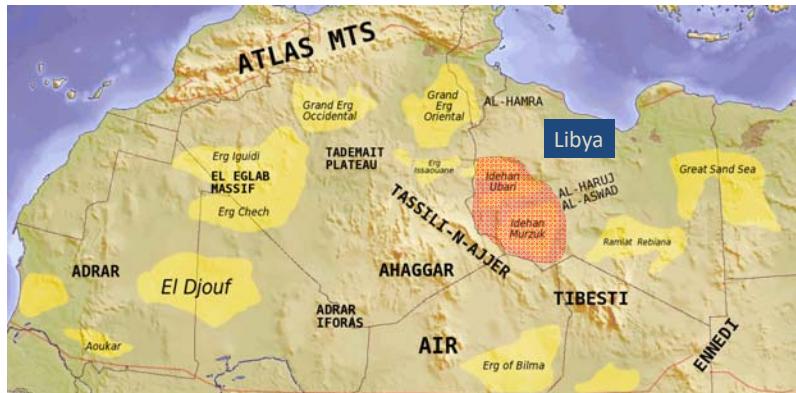


## Evolutionary ecology questions

1. Adaptation to desert conditions
2. The evolutionary ecology of adaptive edges
3. Habitat tracking and dispersals
4. Evolutionary pumps
5. Extinction and isolation



## Desert Migrations Project – prehistory, environment and evolutionary of the Fezzan



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## Desert Migrations Project 2007-2011

The Garamantes and  
the trans-Saharan links  
– culture, biology and  
environment  
(Mattingly)



Palaeolakes and  
hydrology of the  
Fezzan  
(Drake, White, Armitage)

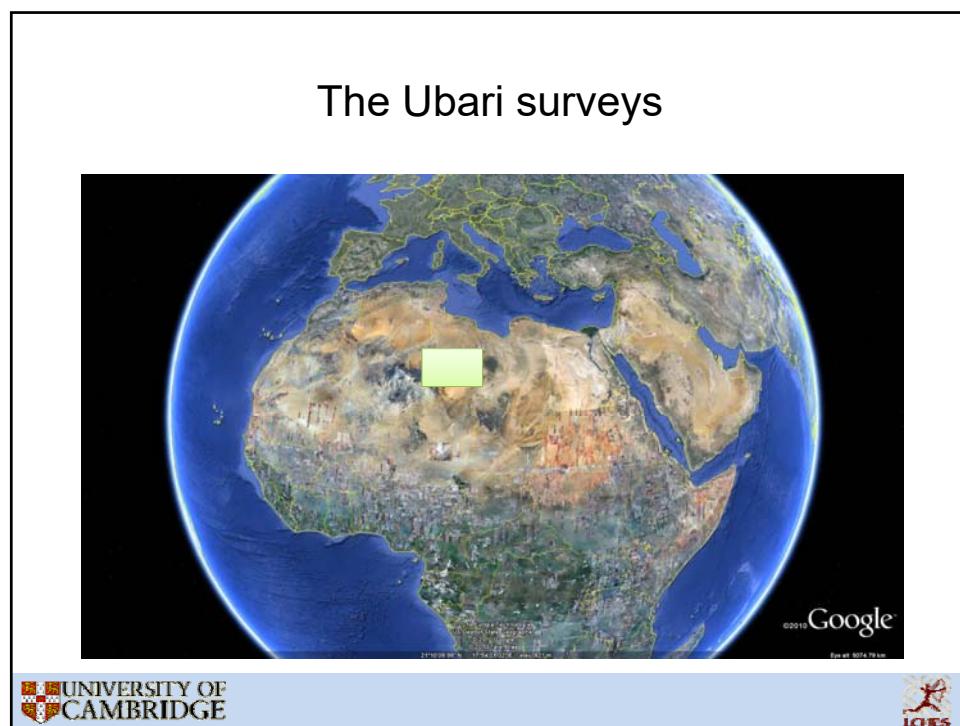
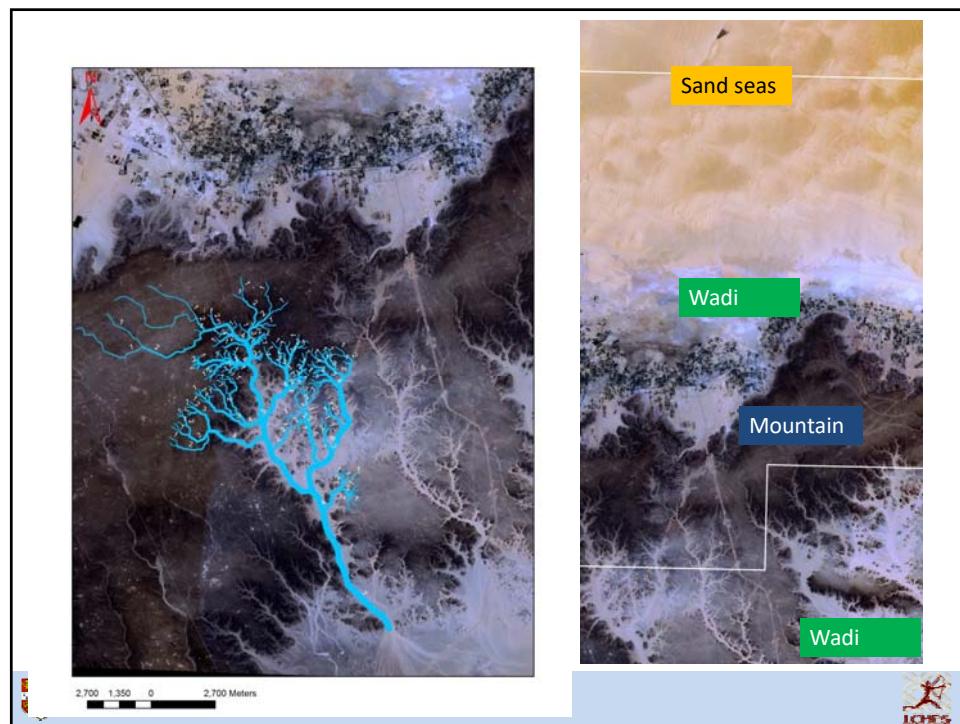


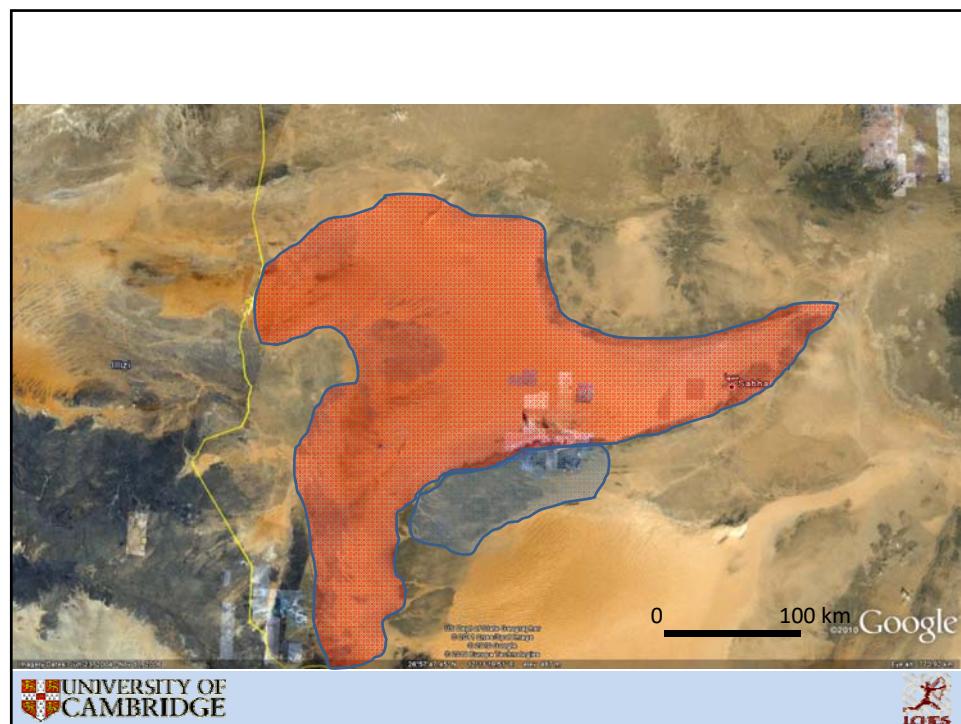
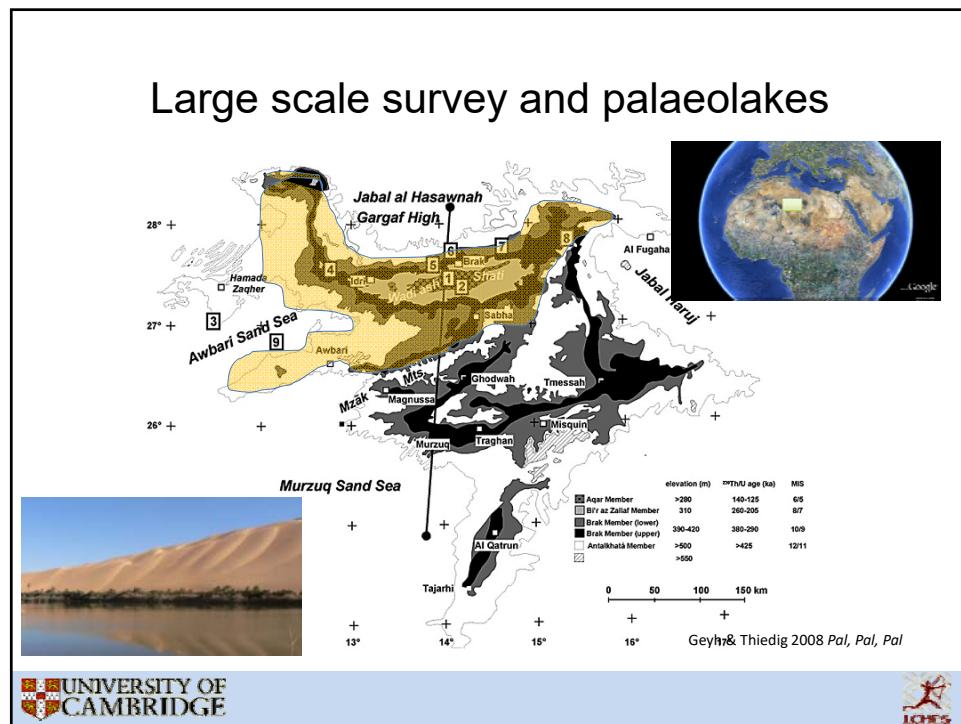
Human evolution and  
dispersals through the  
Quaternary  
(Mirazon Lahr & Foley)



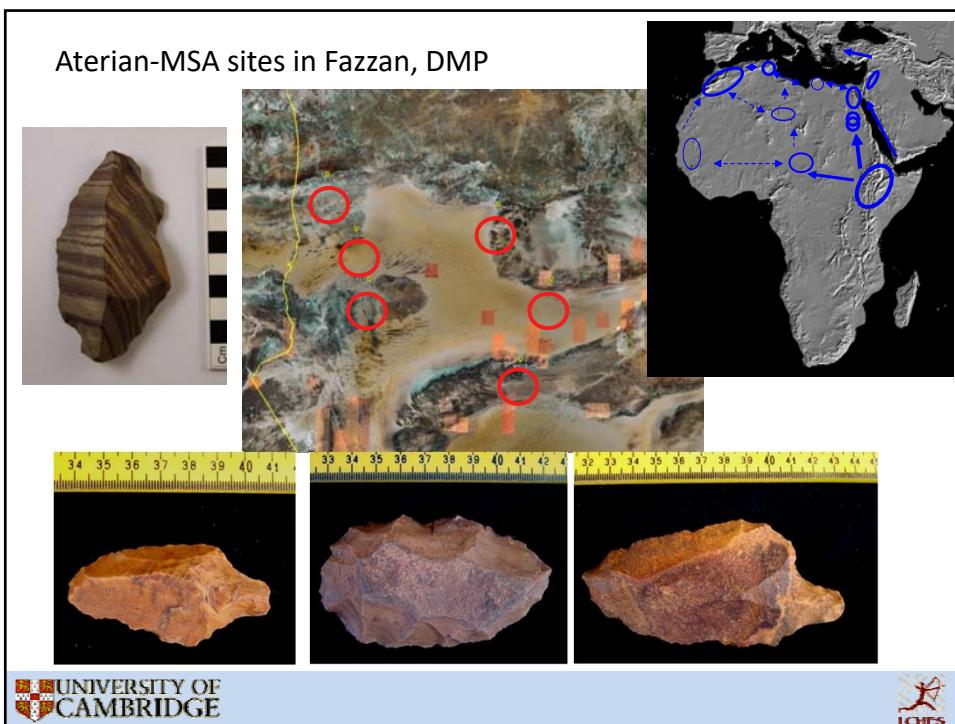
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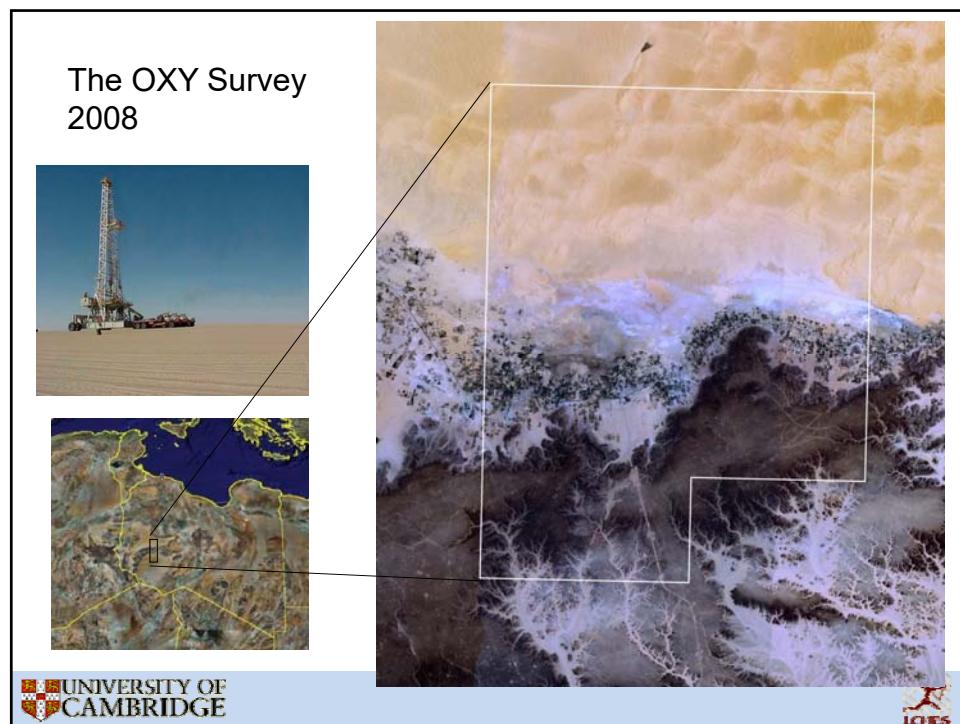
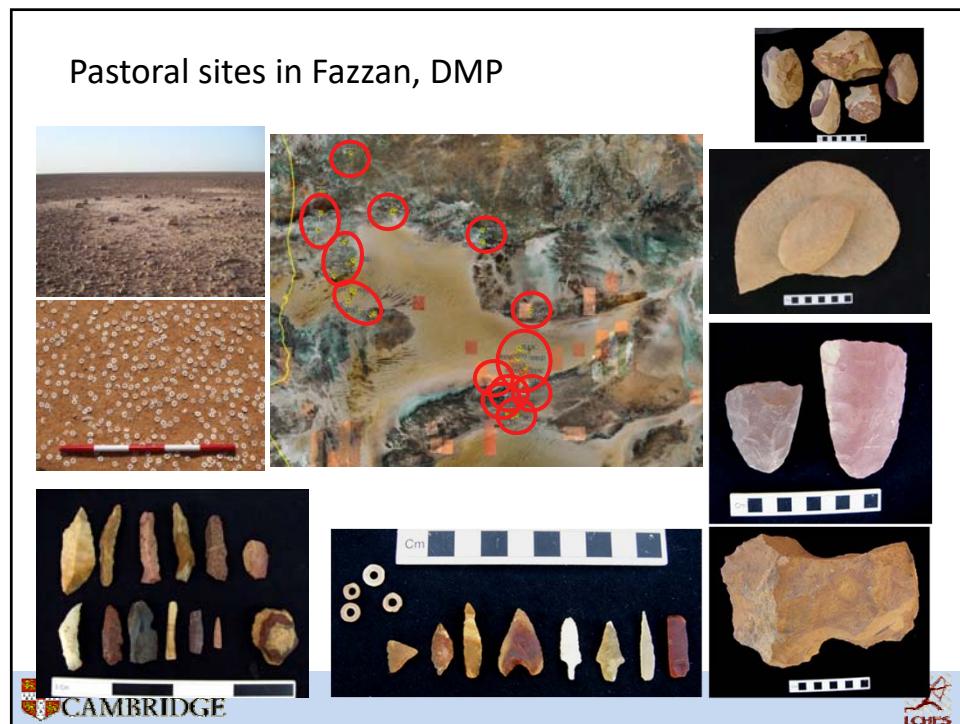


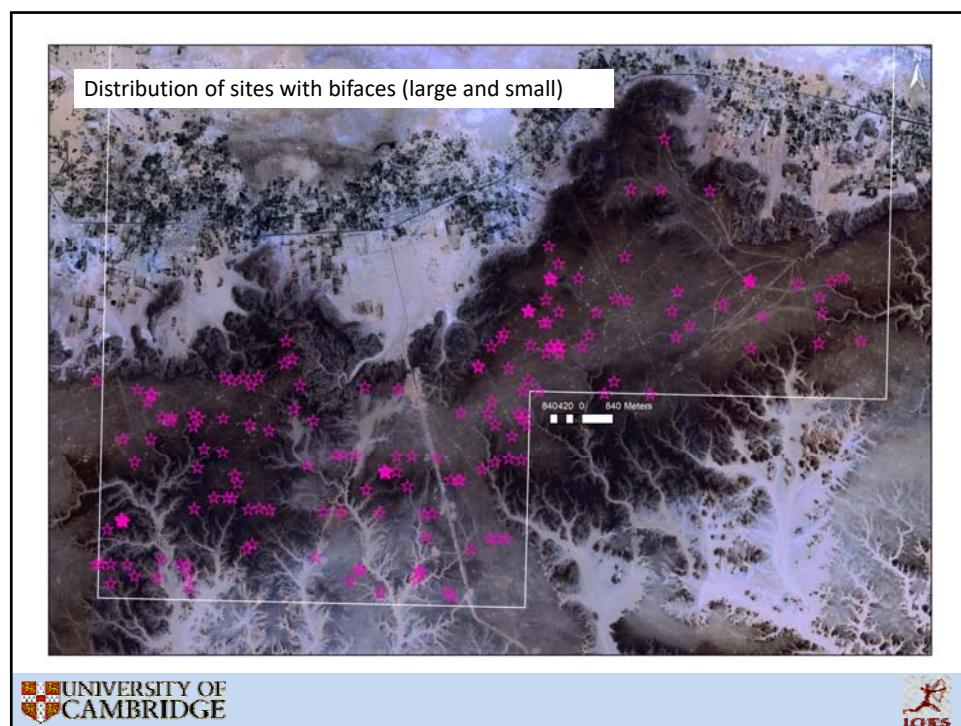
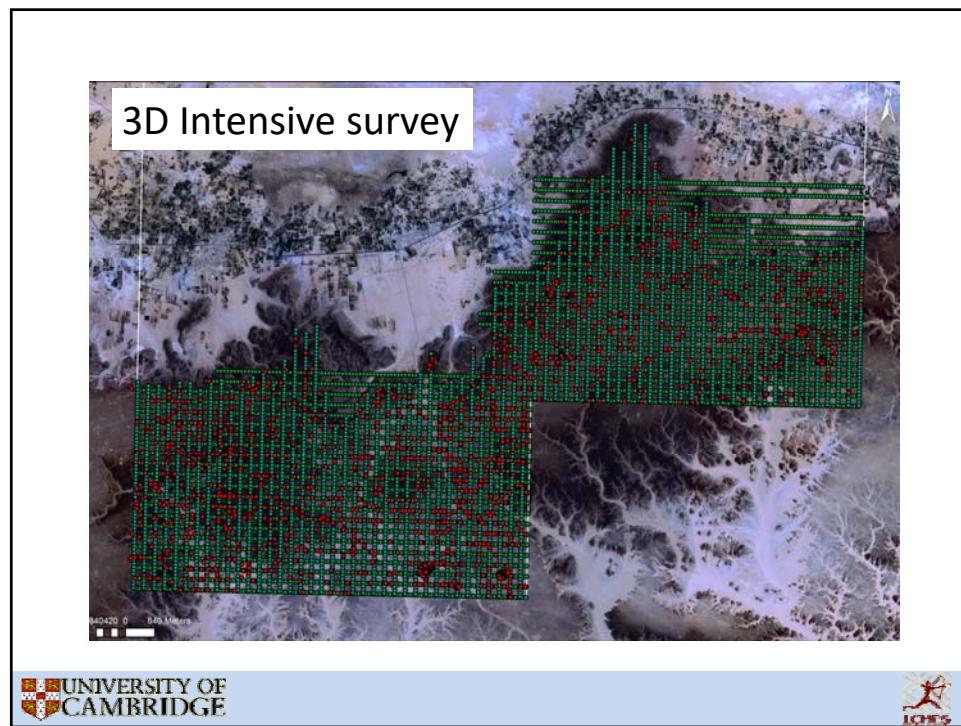


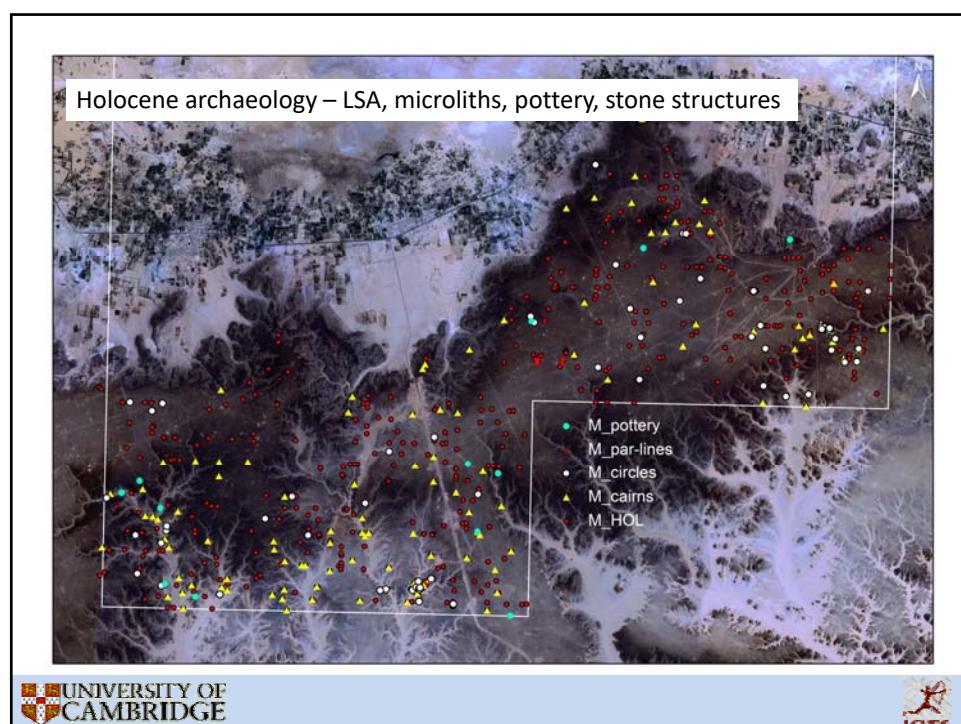
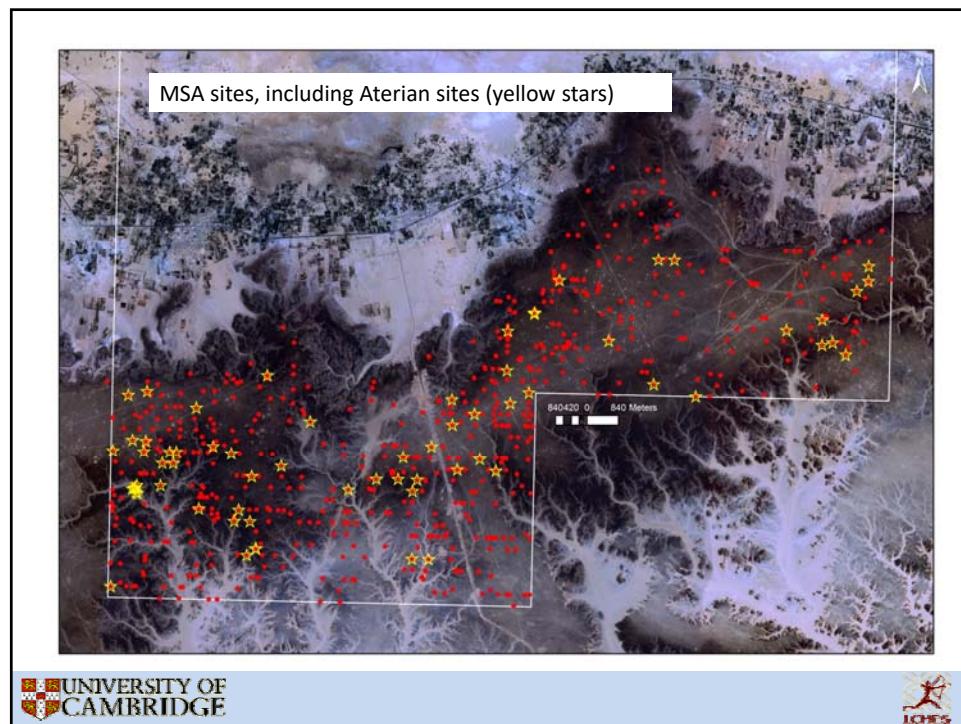


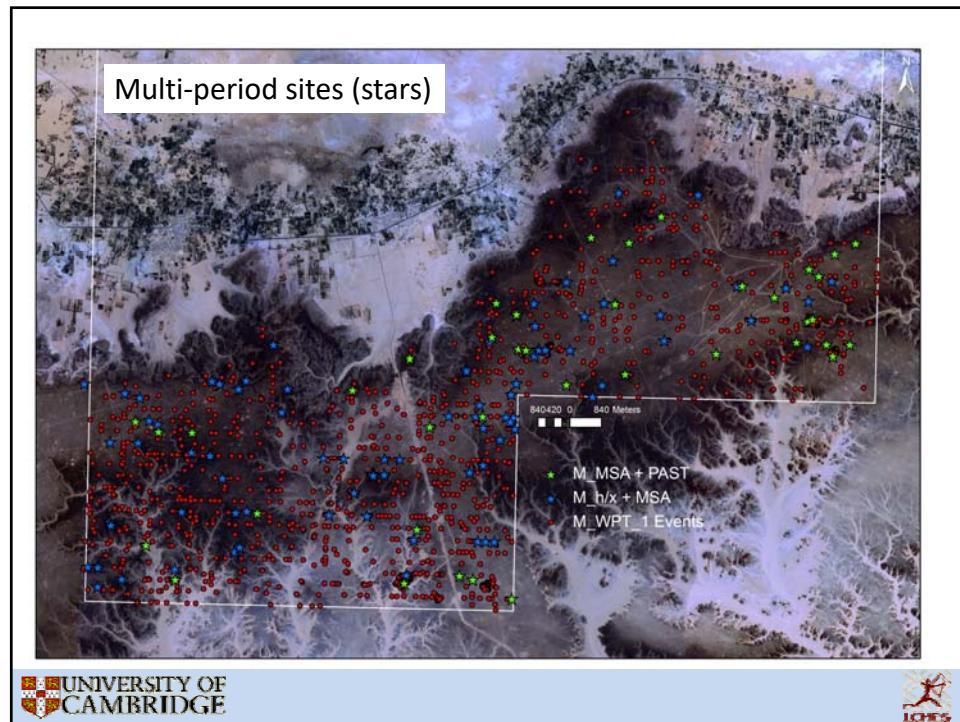












## Extreme evolution – the Saharan case

1. Resource variance in lithic availability
2. Desert environments
3. Variation in dispersal potential
4. African demographic edge



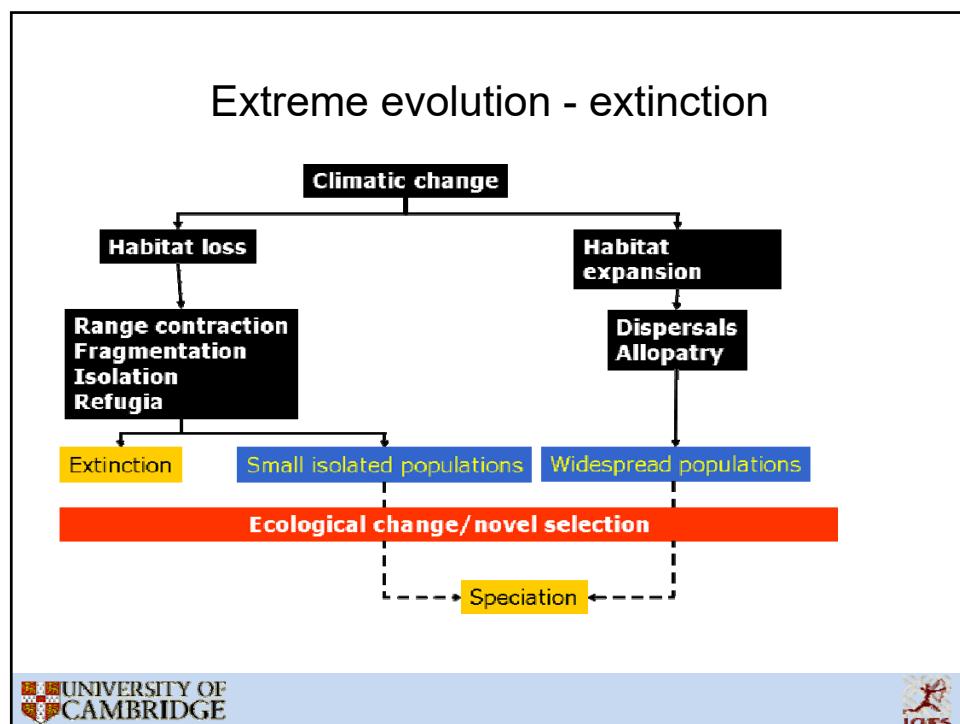
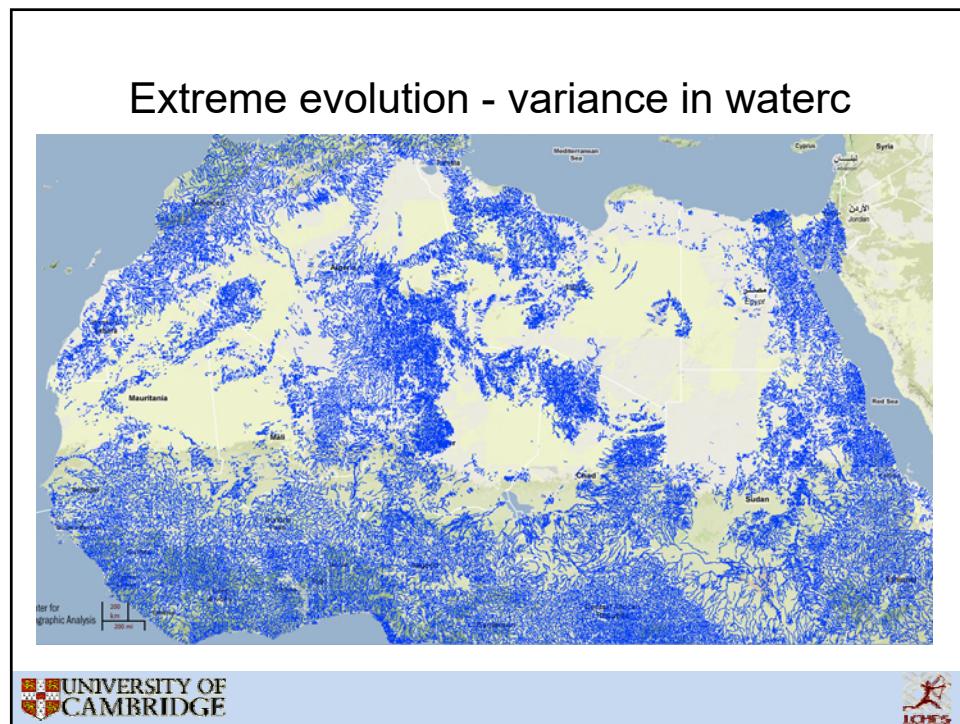
## Extreme evolution – resource variance

Messak



Ubari





Acknowledgements



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Cornelius Halladay-Garrett, Lisa Maher, Mercedes Okumura,  
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University of Cambridge

