

Re: Hs living in caves three miles from the sea (Re: Hs littoral 164 ka)

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Source: <http://sci.tech--archive.net/Archive/sci.anthropology.paleo/2007-10/msg00626.html>

- *From:* Lee Olsen <paleocity@xxxxxxxxxxx>
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<http://www.cnn.com/2007/TECH/science/10/17/early.seafood.ap/index.html>

"Marean figured the early people, probably women, had to trudge two to three miles to where the mussels, clams and snails were harvested and to bring them back to the cave."

Marc Verhaegen wrote:

Nature 449:905-8
Early human use of marine resources and pigment in South Africa during the Middle Pleistocene
CW Marean *cs.*2007

Genetic and anatomical evidence suggests that *Homo sapiens* arose in Africa between 200 and 100 ka, and recent evidence indicates symbolic behaviour may have appeared c.135-75 ka. From 195-130 ka, the world was in a fluctuating but predominantly glacial stage (marine isotope stage MIS6); much of Africa was cooler and drier, and dated archaeological sites are rare. Here we show that by c.164 ±12 ka at Pinnacle Point (on the south coast of South Africa) humans expanded their diet to include marine resources, perhaps as a response to these harsh environmental conditions. The earliest previous evidence for human use of marine resources and coastal habitats was dated to

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c.125 ka. Coincident with this diet and habitat expansion is an early use and modification of pigment, probably for symbolic behaviour, as well as the production of bladelet stone tool technology, previously dated to post-70 ka. Shellfish may have been crucial to the survival of these early humans as they expanded their home ranges to include coastlines and followed the shifting position of the coast when sea level fluctuated over the length of MIS6.