

Lagoonar Deposits Eastward of Quarteira (Algarve) - Preliminary Results

A. M. Monge SOARES¹, P. BARROS², P. QUEIROZ³, J. M. Alveirinho DIAS⁴, L. ROCHA⁵, W. Van LEEWAARDEN⁶

¹ Instituto Tecnológico e Nuclear, Estrada Nacional N° 10, 2685-953 Sacavém amsoares@itn.pt

² Instituto Português de Arqueologia - Ext. Silves, Apartado 183, 8300 Silves pbarros@ipa.min-cultura.pt

³ Centro de Investigação em Paleoecologia Humana e Arqueociências - IPA, Av. da Índia, 136, 1300-300 Lisboa pqueiroz@ipa.min-cultura.pt

⁴ Faculdade de Ciências do Mar e do Ambiente - Un. Algarve, Campus de Gambelas, 8000-117 Faro jdias@ualg.pt

⁵ Instituto Português de Arqueologia - Ext. Crato, R. 5 de Outubro, 33, 7430-137 Crato irocha@ipa.min-cultura.pt

⁶ Centro de Investigação em Paleoecologia Humana e Arqueociências - IPA, Av. da Índia, 136, 1300-300 Lisboa wim@ipa.min-cultura.pt

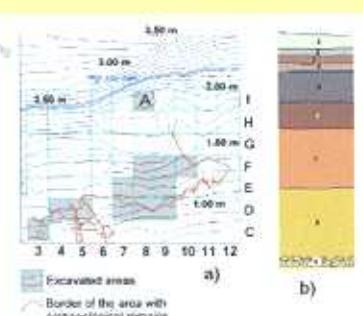
In the southern coast of Algarve, eastward of Quarteira, some coastal segments have been subject to a fast evolution, characterised by an accelerated shoreline retreat.

Coastal erosion allows nowadays that, when the beach presents storm profiles, outcrops of old lagoonar sediments can be seen sometimes during low waters, westward and eastward of the Forte Novo cliff (sites A and B, respectively).



In 1999, an archaeological excavation was carried out at the Forte Novo Beach (site A) in a neolithic settlement that, at that time, became visible at low-water.

Different types of samples (charcoal, tree trunks, peat and mud) were collected for radiocarbon dating at sites A and B.



RADIOCARBON DATES

Site A (archaeological remains)		
Sac-1606	charcoal	4150±80 BP
Sac-1700	charcoal	4430±120 BP
Sac-1637	charcoal	4570±90 BP
Site A (geologic)		
Sac-1580	wood	6090±60 BP
Sac-1539	wood	6270±100 BP
Site B1		
ICEN-325	mud	760±60 BP
ICEN-324	mud	1330±50 BP
Sac-1833	wood	740±70 BP

a) Topographic drawing of the beach segment with archaeological remains
b) Stratigraphic profile at square A



Stump, identified as wood of *Pinus pinaster*, incorporated in clayey-silty mud flat sediment, was dated from 6270±100 BP (Sac-1539).

Conclusions

Two lagoonar deposits of different ages were identified eastward of Quarteira. One of them, at Forte Novo beach, contains an archaeological level dated from the Late Neolithic. Older remains (tree trunks) with dates of c. 6000 BP were picked up from a clayey-silty mud flat sediment found near the archaeological remains. Eastward of the Forte Novo cliff another lagoonar deposit was identified with much more recent organic sediments (c. 1000 BP).

The preliminary results point out that we are facing sites with very complex and diversified ecological histories that need further research.