Contract the particular of the the the contract of the contrac

#### LAMBERT'S BAY AREA, SOUTH WESTERN CAPE, SOUTH **EXCAVATIONS** AT STEENBOKSFONTEIN AFRICA. CAVE (SBF),

Interim report to the National Monuments Council (ref. number 9/2/022/9)

Ms. Antonieta Jerardino (Ph. D. student)

SPATIAL ARCHAEOLOGY RESEARCH UNIT
DEPARTMENT OF ARCHAEOLOGY
UNIVERSITY OF CAPE TOWN
(JUNE 1994)

### Introduction:

this place as having been of a major point of reference for the coastal hunter-gatherers in the location, size and prominence in the surrounding landscape, it is not difficult to conceive of during summer months, when the strong southeaster winds are prevalent. Judging by its walk of 2 km (Figure 1). Because of its large size, it offers excellent protection, specially Sandveld. The cave is oriented NW-W, and access to nearby reefs and beaches involves (32° 09' 42" S, 18° 20' E), on the coastal margins of the relatively flat region known as the Steenboksfontein Cave (SBF) is located in a prominent rocky outcrop, or "koppie"

clear that SBF offers just the right observations for a better understanding of this millenium. excavated have now been dated between 3000 to 2000 BP. As a consequence, it has became excavating SBF, examination of sequences before and after the megamidden accumulation. of my Ph.D project. In recent years, knowledge of this period has increased mainly enormous shell accumulations date to between 3000 and 2000 before present (BP), but are unfortunately very poor in cultural materials. Their study constitutes one of the main issues author), is located just inland from several "meganiddens" in the area (Figure 1). few points can be mentioned to justify this statement: and after the megamidden period. Surprisingly, all major stratigraphic layers as Pancho's Kitchen Midden (PKM) (see previous report submitted it was expected that this site would likewise provide information from These

- in the Eland's Bay area (Figure 1) show very small, or no deposit at all, from this period 3000 and 2000 BP. With the exception of PKM, various other caves and shelters excavated SBF is the only coastal cave with substantial volumes of deposits dating between
- SBF archaeological record of the 2200 year old deposits (see below) would allow a better currently under intense debate (Smith, 1992; Sealy & Yates, 1994). The interpretation of the of this event and the ways in which pastoralism spread in the southernmost part of Africa is presence in SBF of archaeological deposits dating to just before the arrival of the pastoralist in the south-western Cape around 2000 BP is also of special relevance. SBF shows a chronologically well resolved sequence for this period.

5

new economy establish the extent to which local hunter-gatherers played an active rôle in the spread of this prior to the introduction of stock-keeping economy. assessment of the social and economic status of coastal hunter-gatherer groups in the area Consequently, it may be possible to

- relative abundances would certainly contribute to an understanding of this issue during the 3000 to 2000 millenium? The study of SBF materials, their associations and SBF and megamiddens, and how are they integrated in the hunter-gatherer settlement system in the contemporary and nearby megamiddens. What was the character of the visits at both recovered from SBF represent the domestic activities at this site. This information is lacking The presence of artefacts of different kinds, food remains and hearth features
- had been recorded from the Eland's Bay and Lambert's Bay areas dating to 3000 to 2000 BP. (Robey, 1984; Manhire, 1987) showed incomplete sequences, as no stone-tool assemblage reliable stone-tool sequence for the late Holocene at a regional level. The analysis of the stone artefacts will contribute towards establishing Previous attempts
- marks will help to reconstruct the butchering practices at that time, as well as the taphonomic hunted and/or snared at a more detailed level. The study of the bone cut-marks and gnaw remains are also well preserved, which will allow the determination of the range of species provide an excellent index microfauna are present in abundant quantities. damage, when not charred or burnt. are remarkably well preserved. The plant and other botanical remains show minimal v) Unlike many other coastal sites (sheltered or open), the archaeological remains in of the environment surrounding the site. Throughout the excavated sequence, charcoal and The analysis of both these remains The macro-faunal

### Excavations:

the SWAN FUND and by a CSD grant of Prof. John Parkington (UCT) m<sup>2</sup> have been dug to different depths, and a total of approximately 2 m<sup>3</sup> have been removed. The initial excavation programme at SBF, and subsequent analysis and dating was funded by Further excavations are planned for the end of 1994 and the following year.

# Stratigraphy and dating:

and against the slopes of a previously dug basin. Six radiocarbon dates have been obtained sometimes very ashy, shell lenses. Three of the four observed stratigraphic layers rested in Excavations at SBF were undertaken by following the natural stratification of Stratigraphically, SBF deposits are characterized by a series of sandy, and

broad categories. Shell, botanical, and sediment samples were taken. by the 1.5 mm mesh was bagged for further analysis in the laboratory. mm mesh). The excavated material was sieved through two stacked meshes (3.3 mm on top of a All material retained by the 3.3 mm mesh was sorted at the site into various The material retained

for one of the bottom units within this layer. the top most units, and an identical date on charcoal, 2200 ± 50 BP (Pta-6424) was obtained presence of dried kelp is conspicuous. This stratigraphic layer thins out towards the rear wall of the cave. are numerous macro-botanical remains, predominantly twigs of various sizes. A date on charcoal of 2200 ± 60 BP (Pta-6136) has been obtained from one of Is characterized by a light grey brown, in colour, very sandy deposit

BP (Pta-6136). One date has been obtained from a sample of post-cranial bones of microfauna:  $2360 \pm 45$ Microfaunal remains are present in highest quantities relatively to the other excavated layers remains are represented by Layer 2: These deposits are light brown, sandy, and fairly organic. small twigs. This layer has less shell and macro-fauna. Botanical

(Pta-6134). the occupation span of this layer. Top:  $2490 \pm 50$  BP (Pta-6505); and bottom:  $2690 \pm$ remains are less frequent, most of it present in the salt encrusted deposits. Two dates bracket Equivalent deposits located towards the entrance of cave are encrusted with salt. layer is very high, and shell lenses are difficult to trace in the section, specially in ashy units Layer 3: This is a layer of dark and heavily burnt deposits. The shell density in this Botanical

into this layer. A clearly distinguished hearth present in this layer was dated to  $3990 \pm 60$  BP (Pta-6420). This deposit is characterized by very dark brown, and highly organic matrix. All the layers described above fill a basin dug by prehistoric inhabitants

to be in the order of 3 to 5 meters umple volumes of material on the cave talus, the total depth of deposits at SBF is estimated During the initial excavations at SBF, bedrock was not reached. Considering

## Preliminary results:

present some interesting patterns and findings respectively. the next few month. in progress. The sorting of the 1.5 mm mesh material has been finished, and the shellfish analysis Despite the preliminary nature of the results here reported, they nonetheless (South The stone artefact and other cultural components will be analyzed within The microfauna and bone remains are currently under analysis by Dr. African Museum) and Dr. R.G. Klein (Stanford University).

excavated sequence. Layer 2 (c. 2300 BP), hardly shows evidence for human visits to SBF: material. consuming (Goodwin & van Riet Lowe, 1929). During these visits, massive and long-lasting be proposed since the activity involved in bead manufacture has been described as very time longer, as most of the finished and unfinished beads are found there. This reconstruction can episode, during the accumulation of layer 3 (c. 2600 BP), visits must have been relatively The creation of this basin is unlikely to have responded to the need of generating space. (between 4000 and 2700 BP), people decided to dig a basin, for some yet unknown purpose differently by the prehistoric visitors. one to the next. luyer is the same, they are clearly represented in different frequencies and proportions from roof was at least three to four meters above the visitors heads by that time. In this layer, macro-fauna, shell and ochre densities are also the highest in the lighted, as shown Although the range of artefacts and ecofacts recovered from each stratigraphic It is clear, that during each occupational episode, the site was used by hearth stone features and dense, heavily burnt (calcined) For example: sometime after layer 4 was accumulated After this

Around and very little evidence for stone flaking activity short term visits: there is almost no evidence for ostrich egg shell (OES) bead manufacture most of the bone is comprised of microfauna. The larger part of it was certainly introduced volumes of cultural deposits in this layer, the deposition rate by this time was clearly regurgitated pellets from raptors roosting on a prominent inner cave ledge, located just Accordingly, the settlement pattern at SBF seems to have consisted of very frequent the excavations. 2200 BP (layer Macro-fauna, shell and other humanly introduced materials are people resumed visits to the site. Considering the substantial

- and Tortoise Cave (own data) abundant in layer 4 (c. 4000 BP). Preliminary flakes and material used in the production of stone tools were locally available quartzitic A fair number of stone artefacts have been recovered from the excavated material quartzite). observations indentify scrapers and adzes as the most frequent formal tools and other debitage material are present in surprisingly low numbers. Exotic raw materials (varieties These trends are comparable to those described for PKM of silcretes) are relatively Most of more
- frequently in layer 4 than in the above layers throughout Bland's Bay areas. contemporary changes observed in other shell middens located in the iii) Changes in the shellfish species composition at SBF correspond broadly with the recorded It seems that Choromytilus meridionalis (black sequence. Nonetheless, Patella spp. are Lambert's Bay and mussel) encountered dominates more
- 4 shows the presence of big bovid bones. trequency also in layer 4 followed by small to small-medium sized bovid bones throughout the four layers. Tortoise bones are the most frequent component Remarkably, bird bones were found with highest of the macro-faunal remains Only layer
- found in exotic shell and OES pendants, were found. with remnants of mastic (attachment substance used on hafted tools), as well as most of Layer 3 contains a variety of artefacts that are either infrequent or absent in other mentioned above, Here, most of the fine twine and pigments, and most of the most of the unfinished A unique and finely decorated reed tube was and finished OES beads six formal have

pastoralism in the area, but perhaps by: a) a factor of preservation; b) the absence of 3000 to old sequence). It seems now that this difference was not brought about by the appearance of rubbed artefacts is shown in the last 2000 years, (contrasting with the earlier pre-3000 year in the previous millenium. 2000 BP cave deposits in that area; and c) a continuation of an already established tradition Holocene deposits of various excavated sites in the Eland's Bay area (not all of them shown ulso found in layer 3 deposits. An exception to this pattern is the presence of a silcrete adze in Figure 1), an increase in exotic shell and OES pendants, as well as pigments and ochre mounted on mastic, in an excellent state of preservation, found in layer 1. In the late

### Acknowledgments:

before excavations started. and hard work during excavations at Steenboksfontein Cave. my thanks to Beth Wahl, Gavin Anderson, Grant Hall and Emma Sealy for their dedicated support in the field and laboratory, as well as discussion of the results. I would like to extend hospitality at Steenboksfontein farm. I am greatly indebted to Royden Yates for his constant ulso very grateful to Mr. Herman Burger and Mrs. Kitta Burger for their goodwill and excavation, analysis and dating of Steenboksfontein Cave is gratefully acknowledged. I am The financial support received from the SWAN FUND, CSD and WENNER-GREN for the Dr. J. Deacon gave advice

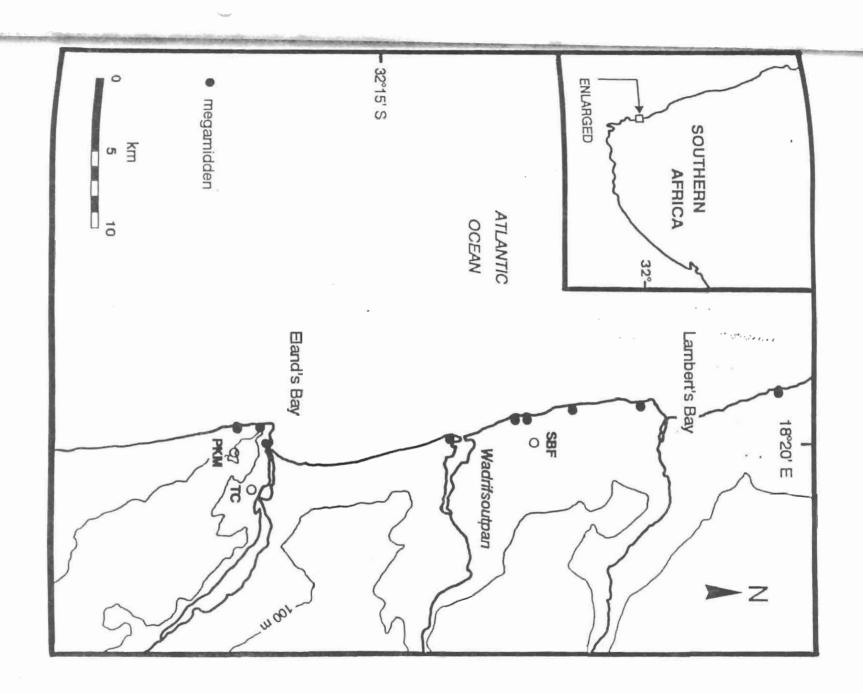


Figure Cave; PKM, Pancho's Kitchen Midden. archaeological sites mentioned in the text. -Geographic location of Lambert's Bay and Eland's Bay areas, including SBF, Steenboksfontein; TC, Tortoise

(1)

### References:

- Goodwin, A. J. H. & van Riet Lowe, C. (1929). The Stone Age cultures of South Africa Annals of the South African Museum, 27: 1-289.
- Manhire, A. (1987). Archaeology, BAR International series 351. western Cape Later Stone Age settlement patterns in the Sandveld of the south Province, South Africa. Cambridge Monographs Ħ. African
- Robey, T. (1984). Tortoise Cave. M.A. thesis, Department of Archaeology, University of Cape Town. Burrows and bedding: site taphonomy and spatial archaeology at
- Sealy, J. & Yates, R. (1994). The chronology of the introduction of pastoralism to the Cape. South Africa. Antiquity, 68: 58-67.
- Smith, A. (1992). University Press, Johannesburg Pastoralism in Africa: Origins and Development Ecology. Witwatersrand