## TOOLS FROM THE BOCA WEIR SITE AN ANALYSIS OF SHARK TOOTH IN SOUTH FLORIDA

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REFERENCE

## ANALYSIS OF. SHARK TOOTH TOOLS FROM THE Z SOUTH FLORIDA BOCA WEIR SITE

## John F. Furey

Department of Anthropology, Florida Atlantic University. A consite report is on file at the University (Furey 1972) or avail through University Microfilms. The habitation sequence dates approximately A.D. was excavated Department of Florida, between the Atlantic Ocean and the seriation. Boca Weir between 1971 and 1972 under the Anthropology, Florida Atlantic 500 Site ţ (PB-56), located just north of 1600 and the dating is tic University. A complete (Furey 1972) or available the auspices of intracoastal waterway, based noqu Boca the ceramic from

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0 fi Glade Center covered Glades teeth have been recovered from many Florida sites with a number tes reporting only one or two shark tooth tools. At the Belle ade site, Willey (1949) found evidence of their use as woodwork-g implements but recovered only a few teeth. numbers An examination of (Steinen 1971), subarea, from only a, or all of Florida for that matter, ....\_
a, or all of Florida for that matter, ....\_
of shark tooth tools have been archaeologically
only three sites: Key Marco (Cushing 1896), Fort the many archaeological reports Fort numbers that re-0f

Weir an anomally and, since the shark teeth Fort Center were not subjected to extensive hoped this analysis will provide a foundation concerning this an anomally sheer number of shark tool type. tooth tools recovered makes Boca from Key Marco and statistical analysis for further research analysis, ۲.

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Tip: worn, not worn; Edge wear: mesial, distal, tip; Striations: mesial, distal, tip; Tooth cracked: yes, no; Blunting: mesial, distal, bilateral; Notching: mesial, distal, bilateral; Tip fractured or chipped and gum modified: yes, no (see Fig. 1). This system was devised to be flexible in recording all forms of wear/ and the method of with wear patterns, striations, blunting, notching, cracks, ch and gum modification being the major observational categories. chart of each species was then compiled which enabled the stat adjustable focus, height twisted and rotated in replete examination of all microscope Steinen tical treatment carefully examined under a in and basis of species. all cases were assignable to (1971).total otal of 175 shark teeth were recovered at Boca Weir. I analysis utilized was partially based on the work done 1971). The specimens were divided into six categories enable (5x to 30x) with a light source focus, height and angle. Each a rotated in relation to any of of each category. combinations of Seven fragments of specimens were examined surfaces. variable to a species. variables The charts' categories were: Notes power reflecting
source of three : on each tooth were the specimen ţο variables əq Each tooth was computed. could the work done by intensities binocular for Эď statischips, þ then

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example, a tooth with mesial blunting could have distal notching, distal blunting or no modification on the distal edge. This system allows for single and multiple attributes to be recorded in one operation, and any combination of attributes can be computed from this. It also allows teeth to be rejected as tools by multiple criteria in relation to other teeth of the same species. Natural wear in shark teeth has not been an object of study and, as such, all teeth are considered artifacts until a number of areas of wear/use confirm their status as a tool. Patterns of wear/use within and between categories became quickly apparent through use O

## Description of the Teeth

This category consists of five fragments, five unperforated and fourteen perforated specimens. A total of 20 (83.3%) specimens in this sample show wear/use patterns, while the remaining 4 (16.7%) show no signs of wear/use. On this basis, the 4 unmodified teeth are viewed as not having had enough use to show their status as tools or were not used as tools. The latter view is accepted in this analysis and unmodified teeth are classified as non-tools. Fourteen (58.3%) of the specimens had edge/tip wear and, of these 5 (35.7%) were worn only on the mesial edge, 4 (28.6%) only on the tip and 2 (14.3%) on the distal edge only. All other wear is insignificant as 7.1% in three other combinations of wear.

Striations were examined on 8 (33.3%) of the specimens and they were confined to the mesial edge in 50.0% of the cases, tip 37.5% and 12.5% on the distal edge only. No other striations were observed, and no teeth were chipped or cracked. Striations

utilized as a method of attachment in 11 (55.0%) of the specimens by with 4 (36.4%) exhibiting bilateral blunting. Notching occurred on only 2 (10.0%) of the specimens with none exhibiting bilateral notching. Hafting was also accomplished by combinations (n = 9) with 7 (77.8%) having mesial blunting only and 2 (22.2%) with mesial notching only. Perforated teeth with bilateral blunting is the preferred method of hafting this species.

Lemon

being unperforated. Seventy (94.6%) or the remaining 4 (5.4%) are not worn and are use patterns while the remaining 4 (5.4%) are not worn and are also if ied as non-tools because of their lack of cultural modified as non-tools because of the cultural modified as non-tools because o worn only on edge only. 1 Shark Negaprion brevirostris (N = 74)
This species is the largest of the six, with all speunperforated. Seventy (94.6%) of the teeth exhibit Of the 70 teeth with wear/use patterns, y on the tip, 17 (24.3%) are worn on the y. Wear on all three edges occurs on 15 tip and mesial (21.4%) of the 30 (42.9%) are specimens modifiwear