# CITY OF SAN DIEGO VOUCHER SHEET

**Species:** *Havelockia benti var zacae*
**Authority:** (Deichman 1938)
**Common Synonyms:**

**Taxon:** Holothuroidea: Phyllophoridae
**Date:** 6 April 1995
**By:** Megan B. Lilly
**Voucher Specimen(s):**

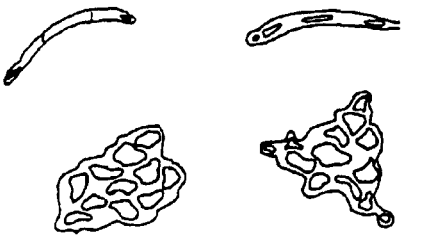
| Station | Date | Storage Location | Voucher# |
|---|---|---|---|

## Characters:

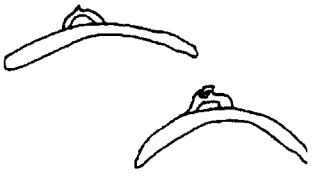
Color - tannish with rust colored podia. Supporting tables are simple bars with no (or minimal) spires. Body wall tables reduced to plates (no spires). True tables present in introvert mount. Distinctive plates seen in body wall mount - see illustrations.

## Illustration: (Author, 1999)

Body wall and supporting tables



(supporting tables with simple spires)



Plates distinctive to *Havelockia*

## Full Description: (Author, 1999)

*Havelockia benti var zacae* is a large, tannish holothuroid with orangish/rust colored podia (due to sediment adhesion, I believe). It is in the same family as the *Pentameras* (Phyllophoridae), but can be distinguished by a spicule mount. The body wall tables will be reduced to simple plates (no spires) and the supporting tables will be reduced to simple rods (some may have small/mininal spires). As well, a tissue mount from the introvert should reveal some tables. In either of the *Pentameras* , only plates are present in introvert tissue.

## Related Species:

See voucher sheets for *P. pseudopopulifera* and *P. populifera.*

## Comments:

See voucher sheets on either *Pentamera pseudopopulifera* or *Pentamera populifera* for instructions on spicule mounts.

The holothuroid *Havelockia benti* is believed by Mary Bergen to be a juvenile growth phase of *Havelockia benti var zacze.* I did not do a voucher sheet on this animal as I don't have any in the collection and can not produce illustrations of the spicules. It will have true body wall tables with spires, but they will be more "filligree" and delicate looking than those seen in *Pentamera.* Its supporting tables will have spires as well, but they will be small and simple. One check to verify it is a *Havelockia* is to do a mount of a section of introvert tissue and loo for tables. *Pentamera* will only produce plates (no spires) in their introverts. Basically a small *Havelockia* will potentially be difficult to I.D. so please bring them to me if you are having problems.

## References: (Deichmann 1938)

(over)