

KEY TO IDENTIFICATION OF AMPHIODIA SPP IN SCBPP SAMPLES

(partially based on Pasko 1994)

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- 1a. disk cap absent ..... 2
- b. disk cap present ..... 5
  
- 2a. arm spines cylindrical, truncate, flattened in cross-section ..... *A. occidentalis*
- b. arm spines tapered, pointed, round or oval in cross-section ..... 3
  
- 3a. arm spines bluntly pointed, lacking hyaline tips ..... *A. psara*
- b. arm spines acutely pointed, often with hyaline tips ..... 4
  
- 4a. distal margin of dorsal arm plates straight\*, no gap between lateral and dorsal arm plates ..... *A. digitata*
- b. distal margin of dorsal arm plates angled up at the sides\*, leaving a gap between the dorsal and lateral arm plates through which tissue is visible ..... *A. urtica*
  
- 5a. disk cap less than 2mm in diameter OR disk cap consists of primary scales and few other small scales, OR # of marginal scales 2 or less on either side of the mid-marginal scale, OR # of marginal scales indeterminate ..... *Amphiodia* sp
- b. disk cap greater than 2 mm diameter ..... 6
  
- 6a. primary and mid-marginal scales little or not different in size from other disk cap scales (cap regenerated) 7
- b. primary and mid-marginal scales larger than other disk cap scales (original cap) ..... 10 1)
  
- 7a. some scales on disk cap produced into hyaline points ..... 8
- b. no scales on disk cap produced into hyaline points ..... 9
  
- 8a. distal margin of dorsal arm plates straight, no gap between lateral and dorsal arm plates; all marginal scales of similar size ..... *A. digitata*
- b. distal margin of dorsal arm plates angled up at the sides, leaving a gap between the dorsal and lateral arm plates through which tissue is visible; marginal scales largest near radial shields and decreasing in size towards mid-marginal scale ..... *A. urtica*
  
- 9a. arm spines cylindrical, truncate, flattened in cross-section ..... *A. occidentalis*
- b. arm spines tapering, pointed, oval or round in cross-section ..... 10
  
- 10a. arm spines bluntly pointed ..... *A. psara*
- b. arm spines acutely pointed, often with hyaline tips ..... ~~*A. urtica*~~ 1)
  
- 11a. some scales on disk cap produced into hyaline points ..... 12
- b. no scales on disk cap produced into hyaline points ..... 15
  
- 12a. scales with hyaline points continuous in, and restricted to, marginal row ..... *A. digitata*
- b. scales with hyaline points either not continuous in or not restricted to marginal row ..... 13
  
- 13a. numerous rows of hyaline pointed scales present on disk cap, one of which may be marginal ... *A. urtica*
- b. no continuous rows of hyaline pointed scales on disk cap ..... 14
  
- 14a. hyaline pointed scales restricted to margin of genital (bursal) slits ..... *A. urtica*
- b. hyaline pointed scales present around bases of arms & scattered elsewhere on disk cap ..... *A. urtica*
  
- 15a. arm spines cylindrical, truncate, flattened in cross-section ..... *A. occidentalis*
- b. arm spines tapering, bluntly pointed, oval or round in cross-section ..... *A. psara*

\*= these characters best viewed on dried specimens

**PLEASE NOTE** - any specimen which fails to clearly fall into one of the choices in any couplet should be reported as *Amphiodia* sp. An undescribed species of *Amphiodia* occurs in this area according to Dr. Gordon Hendler. The species is from relatively coarse substrates in shallow water, and has probably been reported as *A. occidentalis* or *A. psara* in the past. It would probably key to one or the other of those species in the present key. Dr. Hendler has not seen southern California specimens of *A. occidentalis*, and believes the species does not occur here.