Key to the Ophiuridae of Point Loma

**Ophiuroidea**

- **juveniles:** number of oral papillae indeterminable
  - 2 prs. of oral papillae
  - 3 prs. of oral papillae
  - 4 or more prs. of oral papillae

**Amphiura acrystata**
- modified tentacle scales
- disc cap covered with papillae
- arm spines cylindrical, tips blunt
- disc cap scaled
- disc, or marginal disc scales evenly rounded

**Amphiodia psara**
- disc cap granular, radial shields separated proximally
- 4 prs. of oral papillae: 3 spherical, 1 tapered
- disc cap with small scales, radial shields in contact for entire length
- arm spines - tapering, tips acute
- spm small, regenerating disc, or marginal disc scales evenly rounded

**Ophiuroconis bispinosa**
- interbrachial area of disc cap granular, radial shields separated proximally
- 3-4 prs. of oral papillae may be present
- (1) spm. very small (disc <2mm); (2) disc cap consists of primary plates and few other small scales; (3) number of marginal scales ≤ 2 (on either side of middle marginal scale) or number indeterminable; (4) none of the marginal disc scales produced; (5) spm. regenerating disc and species indeterminable

**Amphiodia sp.**
- primary plates approximate position of marginal scales to be counted - should be a
- approximate position of middle marginal scale
- interradial scales: note slightly ventral position relative to radial shields, etc.
- marginal disc scales with hyaline forks or slightly produced margins
- hyaline forks large, clearly forked, restricted to one row of marginal scales; from 3-6 sub-equal marginal scales on either side of middle marginal scale depending on disc diameter and whether disc is regenerating; disc scales large ≥1/2-2/3 of primary plates

**Amphiodia digitata**
- primary plates
- approximate position of marginal scales to be counted - should be a
- approximate position of middle marginal scale
- interradial scales: note slightly ventral position relative to radial shields, etc.
- 5 marginal scales
- middle marginal scale
- 6 marginal scales

**Amphiodia urtica**
- primary plates
- approximate position of marginal scales to be counted - should be a
- approximate position of middle marginal scale
- interradial scales: note slightly ventral position relative to radial shields, etc.
- 5 marginal scales
- middle marginal scale
- 6 marginal scales

**Ophiura lutkeni**
- disc cap with small accessory plates encircling dorsal arm plates
- small round accessory plates encircle dorsal arm plates
- disc cap without superficial structures; radial shields large
- forked spines cover disc cap; arm spines serrated
- disc cap absent
- disc cap present

**Amphipholis squamata**
- disc cap without superficial structures; radial shields large
- sharp, tapering spines cover disc cap
- Dougaloplus amphicantha
- blunt, club-shaped spines cover disc cap
- Dougaloplus sp. A