

Class Ophiuroidea

Ophiothrix spiculata

NAME

CLASS Ophiuroidea

APPROX. GEOGR. RANGE

BATHY. ZONE: shore and dredged

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

ORDER

FAMILY

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF
STATED, TO TIDAL CURRENTS)

(EXPOSED, SEMI-PROTECTED,
SHELTERED)

TIDAL HORIZON (OR DEPTH IF DREDGED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DREDGED)

SUMMARY OF OBSERVATIONAL DATA

TYPE OF BOTTOM:

(REEF, ROCKS, BOULDERS,
GRAVEL, SAND, MUD)

POSITION:

(ON OR UNDER
ROCKS, WEED, IN
SUBSTRATUM,
ETC.)

VEGETATION:

(BARE, ROCK-
WEED, KELP, EEL
GRASS, ETC.)

ASSOCIATES,
COMMENSALS:

BREEDING SEA-
SON, COLOR IN
LIFE, ETC.:

Variable. Vivid greens and reds

NAME

Ophiothrix spiculata

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")
4Jan and 11Jan '25	Mont Bay, prob. off Del Monte	dredg	15-20		clay	many	EFR
?	Carmel, reef region, in abalone pool Also under rks in Patiria association	shore	low	semi	rky	few	EFR

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Ophiopholis bakeri

Ophiuroidea

NAME

CLASS

APPROX. GEOGR. RANGE

ORDER

BATHY. ZONE:

Dredged

FAMILY

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)

TIDAL HORIZON (OR DEPTH IF DREDGED)

TYPE OF BOTTOM:

(EXPOSED, SEMI-PROTECTED, SHELTERED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DRDGED)

(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)

SUMMARY OF OBSERVATIONAL DATA

POSITION:

(ON OR UNDER ROCKS, WEED, IN SUBSTRATUM, ETC.)

VEGETATION:

(BARE, ROCK-WEED, KELP, EEL GRASS, ETC.)

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:

Pink orred bands on a lighter background

NAME

Ophiopholis bakeri

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")
13Apr '25	Brought in on gorgonians by black cod fisherman, Santa Cruz	dredg	400fms		Blk shale	39	EFR or WKF

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Amphiliomma pentacantha

CLASS Ophiuroidea

NAME

ORDER

APPROX. GEOGR. RANGE

BATHY. ZONE: Dredged

FAMILY

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)

TIDAL HORIZON (OR DEPTH IF DREDGED)

TYPE OF BOTTOM:

(EXPOSED, SEMI-PROTECTED, SHELTERED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DREDGED)

(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)

SUMMARY OF OBSERVATIONAL DATA

POSITION:

(ON OR UNDER ROCKS, WEED, IN SUBSTRATUM, ETC.)

VEGETATION:

(BARE, ROCK-WEED, KELP, EEL GRASS, ETC.)

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:

Drab red or tawny

NAME

Amphilimna pentacantha

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")
4Jan and 11Jan '25	Off New Monterey Station No. 2	dredg	15-20	fms	black shale and clay		EFR or WKF

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Ophiacantha sp

NAME

CLASS Ophiuroidea

APPROX. GEOGR. RANGE

BATHY. ZONE: dredged

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

ORDER

FAMILY Ophiacanthidae

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)

(EXPOSED, SEMI-PROTECTED, SHELTERED)

TIDAL HORIZON (OR DEPTH IF DREDGED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DRDGED)

SUMMARY OF OBSERVATIONAL DATA

TYPE OF BOTTOM:

(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)

POSITION:

(ON OR UNDER ROCKS, WEED, IN SUBSTRATUM, ETC.)

VEGETATION:

(BARE, ROCK-WEED, KELP, EEL GRASS, ETC.)

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:

NAME

Ophiacantha sp

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")
No.22/6	Channel rock, Mont Bay, brought in by Chin Yip	dredg	80			USNM 101/365	

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Gorgonocephalus eucnemis caryi

NAME

CLASS Ophiuroidea

APPROX. GEOGR. RANGE

BATHY. ZONE: Dredged

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

ORDER

FAMILY

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)

(EXPOSED, SEMI-PROTECTED, SHELTERED)

TIDAL HORIZON (OR DEPTH IF DREDGED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DRDGED)

SUMMARY OF OBSERVATIONAL DATA

TYPE OF BOTTOM:

(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)

POSITION:

(ON OR UNDER ROCKS, WEED, IN SUBSTRATUM, ETC.)

VEGETATION:

(BARE, ROCK-WEED, KELP, EEL GRASS, ETC.)

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:

Gray with some rose and yellow. Arms and borders of arm shields gray. Shields and interbrachial spaces of upper side of disc maroon

NAME

Gorgonocephalus eucnemis caryi

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")
No.33/1	Prob MontBay dragboat	dredg	60 fms		mud	USNM 101/493	
30Mch'25	MontBay	■	55 fms		gray mud	1	
July'24	South of the Farallones	■	55-65		slimy		
					gray mud	2	

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Ophiopholis aculeata

NAME

CLASS Ophiuroidea

APPROX. GEOGR. RANGE

BATHY. ZONE: shore

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

ORDER

FAMILY

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF
STATED, TO TIDAL CURRENTS)

(EXPOSED, SEMI-PROTECTED,
SHELTERED)

TIDAL HORIZON (OR DEPTH IF DREDGED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DREDGED)

SUMMARY OF OBSERVATIONAL DATA

TYPE OF BOTTOM:

(REEF, ROCKS, BOULDERS,
GRAVEL, SAND, MUD)

POSITION:

(ON OR UNDER
ROCKS, WEED, IN
SUBSTRATUM,
ETC.)

VEGETATION:

(BARE, ROCK-
WEED, KELP, EEL
GRASS, ETC.)

ASSOCIATES,
COMMENSALS:

Variable. Vivid greens, reds.

BREEDING SEA-
SON, COLOR IN
LIFE, ETC.:

NAME

Ophiopholis aculeata

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")
?	Flats btwn Aumentos Rk and Lighthouse notuncommon here and in Crml. Perhaps 1 or 2 seen per tide	shore	low	semi	rky		EFR

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Ophiopholis aculeata kennerlyi (Lyman) CLASS Ophiuroidea

NAME

APPROX. GEOGR. RANGE

BATHY. ZONE: dredged

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

ORDER

FAMILY

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)

(EXPOSED, SEMI-PROTECTED, SHELTERED)

TIDAL HORIZON (OR DEPTH IF DREDGED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DRDGED)

SUMMARY OF OBSERVATIONAL DATA

TYPE OF BOTTOM:

(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)

POSITION:

(ON OR UNDER ROCKS, WEED, IN SUBSTRATUM, ETC.)

VEGETATION:

(BARE, ROCK-WEED, KELP, EEL GRASS, ETC.)

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:

NAME

Ophiopholis aculeata kennerlyi

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")
No. 24/5 and 24/8	From rock brought in by Chin Yip from MB channel	dredg	70 80 fms			USNM 101/365	

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Amphiodia occidentalis

NAME

CLASS Ophiuroidea

APPROX. GEOGR. RANGE

BATHY. ZONE: shore and dredged

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

ORDER

FAMILY

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)

(EXPOSED, SEMI-PROTECTED, SHELTERED)

TIDAL HORIZON (OR DEPTH IF DREDGED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DRDGED)

SUMMARY OF OBSERVATIONAL DATA

TYPE OF BOTTOM:

(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)

POSITION:

(ON OR UNDER ROCKS, WEED, IN SUBSTRATUM, ETC.)

VEGETATION:

(BARE, ROCK-WEED, KELP, EEL GRASS, ETC.)

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:

The commonest littoral ophiuran of the region; occurs by the hundred in favorable environment (especially inshore of the great tidepool): where boulders are slightly buried in muddy sand -with *Ischnochiton magdalenensis*

Gray and black

NAME

Amphiodia occidentalis

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")
28/7	MON. Bay. Rock brought in by Chin Yip, rock cod fishermen. Some of the specimens were literally inside the rock and could be got only by breaking the rock itself	dredg	80 fms			USNM 101/365	

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Ophiopteris papillosa

NAME

CLASS Ophiuroidea

APPROX. GEOGR. RANGE

BATHY. ZONE: shore

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

ORDER

FAMILY

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)

(EXPOSED, SEMI-PROTECTED, SHELTERED)

TIDAL HORIZON (OR DEPTH IF DREDGED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DRDGED)

SUMMARY OF OBSERVATIONAL DATA

TYPE OF BOTTOM:

(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)

POSITION:

(ON OR UNDER ROCKS, WEED, IN SUBSTRATUM, ETC.)

VEGETATION:

(BARE, ROCK-WEED, KELP, EEL GRASS, ETC.)

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:

Only 4 of these were found in many years collecting. One pair in the Great Tidepool region in the middle 20s, another pair down the coast below Highlands, in a little Channel below the real estate development (many years back) that used to be called San Remo. A southern species that was quickly exterminated here.

NAME

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Amphipholis pugetana

Ophiuroidea

NAME

CLASS

APPROX. GEOGR. RANGE

ORDER

BATHY. ZONE: Shore and dredging

FAMILY

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)

TIDAL HORIZON (OR DEPTH IF DREDGED)

TYPE OF BOTTOM:

(EXPOSED, SEMI-PROTECTED, SHELTERED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DRDGED)

SUMMARY OF OBSERVATIONAL DATA

(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)

POSITION:

(ON OR UNDER ROCKS, WEED, IN SUBSTRATUM, ETC.)

The second commonest littoral ophiuran. In algae especially at the base of half buried boulders (under which *Amphiodia* occurs), half tide and below

VEGETATION:

(BARE, ROCK-WEED, KELP, EEL GRASS, ETC.)

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:

NAME

Amphipholis pugetana

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")
24/7. 28/6 28/7	Mont Bay. Rocks brought in by Chin Yip from channel	dredg	70-80 fms			USNM	101/365

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Ophioplocus esmarki

Ophiur oidea

NAME

CLASS

APPROX. GEOGR. RANGE

ORDER

BATHY. ZONE: Shore

FAMILY

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)

TIDAL HORIZON (OR DEPTH IF DREDGED)

TYPE OF BOTTOM:

(EXPOSED, SEMI-PROTECTED, SHELTERED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DRDGED)

SUMMARY OF OBSERVATIONAL DATA

(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)

POSITION:
(ON OR UNDER ROCKS, WEED, IN SUBSTRATUM, ETC.)

Under large flat stones on sandy bottom, upper Pelvetia formation. Used to be not uncommon on tideflats btwn Aumentos Rk and LH, but, in common with all southern spp, seems to have been exterminated almost immediately, perhaps as a result of my own collecting activity. I took probably a couple of dozen as I found them in the late 20s.

VEGETATION:
(BARE, ROCK-WEED, KELP, EEL GRASS, ETC.)

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:

NAME

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD"

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Ophiura lutkenni (deter. not certain, CLASS Ophiuroidea)

NAME

based on old card

ORDER

APPROX. GEOGR. RANGE

BATHY. ZONE: dredged

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

FAMILY

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)

(EXPOSED, SEMI-PROTECTED, SHELTERED)

TIDAL HORIZON (OR DEPTH IF DREDGED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DRDGED)

SUMMARY OF OBSERVATIONAL DATA

TYPE OF BOTTOM:

(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)

POSITION:

(ON OR UNDER ROCKS, WEED, IN SUBSTRATUM, ETC.)

VEGETATION:

(BARE, ROCK-WEED, KELP, EEL GRASS, ETC.)

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:

note on old card ⁱⁱⁱMore vivid than *O. sarsii*, but otherwise quite similar ⁱⁱⁱ

NAME

Ophiura lutkenni

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")
4 and 11 Jan '25	Dredging off New Mont	dredg	15-25 fms		shale and clay		EFR?

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Ophiura sarsii

NAME

CLASS Ophiuroidea

APPROX. GEOGR. RANGE

BATHY. ZONE: dredged

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

ORDER

FAMILY

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)

(EXPOSED, SEMI-PROTECTED, SHELTERED)

TIDAL HORIZON (OR DEPTH IF DREDGED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DREDGED)

SUMMARY OF OBSERVATIONAL DATA

TYPE OF BOTTOM:

(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)

POSITION:

(ON OR UNDER ROCKS, WEED, IN SUBSTRATUM, ETC.)

VEGETATION:

(BARE, ROCK-WEED, KELP, EEL GRASS, ETC.)

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:

Pale gray, dark gray markings

NAME

Ophiura sarsii

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")
July '24	Off Farallones, almost unbelievable quantities, many gallons, literally	dredged	50- 65 fms		sticky gray mud	VP	EPR

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS

Asteronyx loveni

NAME

CLASS Ophiuroidea

APPROX. GEOGR. RANGE

BATHY. ZONE: Dredged

(SHORE, PILING, DREDGED, PELAGIC, ETC.)

ORDER

FAMILY

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)

(EXPOSED, SEMI-PROTECTED, SHELTERED)

TIDAL HORIZON (OR DEPTH IF DREDGED)

(HIGH, MEDIUM, LOW, EXTREME LOW, DRDGED)

SUMMARY OF OBSERVATIONAL DATA

TYPE OF BOTTOM:

(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)

POSITION:

(ON OR UNDER ROCKS, WEED, IN SUBSTRATUM, ETC.)

VEGETATION:

(BARE, ROCK-WEED, KELP, EEL GRASS, ETC.)

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC:.

Pale scarlet with yellow tinge

NAME

Asteronyx loveni

DATE	REGION, STATION, POSITION, ETC.	BATHY- METRIC ZONE	DEPTH OR TIDAL HORIZON	EXPOSURE TO WAVE SHOCK	TYPE OF BOTTOM	NUMBER TAKEN OR OBSERVED	IDENT (OR "FIELD")
13Apr'25	Black Cod fishermen Santa Cruz	dredg	400 fms		Blk shale	1 USNM x	

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS