Leuconia heathii

CLASS Calcarea

ORDER

FAMILY

Large bushy spiculated, with big terminal osculum surrounded with tuft of longer spicules

OBVIOUS CHARACTERS

EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS) | TIDAL HORIZON (OR DEPTH IF DREDGED) | TYPE OF BOTTOM:

Semi
(EXPOSED, SEMI-PROTECTED, SHELTERED) | Low | Rky
(HIGH, MEDIUM, LOW, EXTREME LOW, DREDGED) |

SUMMARY OF OBSERVATIONAL DATA

Often with Rhabdodermella, under overhangs, etc in well aerated regions. With Eudendrium, Abietinia-aria, Bugula, Menipea, Allopora etc. Very common and widespread in the MB region

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.

PBL SURVEY CARD—BUFF

CAPE FLATTERY TO PT. CONCEPTION
<table>
<thead>
<tr>
<th>Date</th>
<th>Region, Station, Position, Etc.</th>
<th>Bathymetric Zone</th>
<th>Depth or Tidal Horizon</th>
<th>Exposure to Wave Shock</th>
<th>Type of Bottom</th>
<th>Number Taken or Observed</th>
<th>Ident (Or &quot;Field&quot;)</th>
</tr>
</thead>
</table>

If additional space is needed, use unprinted 4 x 6 white cards
Rhabdodermella nuttingii Urban

CLASS Calcarea

ORDER

FAMILY

Rawny yellow to cream white urn-sponge

OBVIOUS CHARACTERS

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

TIDAL HORIZON (OR DEPTH IF DREDGED)

Lowest tidal zone

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

SUMMARY OF OBSERVATIONAL DATA

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

TYPE OF BOTTOM:

Reef or rocks

POSITION:

In crevices or overhangs. Bugula pacifica, Allopora, Menipea assemblage

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

VEGETATION:

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

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:
<table>
<thead>
<tr>
<th>NAME</th>
<th>Rhabdodermella nuttingii</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>DATE</th>
<th>REGION, STATION, POSITION, ETC.</th>
<th>BATHYMETRIC ZONE</th>
<th>DEPTH OR TIDAL HORIZON</th>
<th>EXPOSURE TO WAVE SHOCK</th>
<th>TYPE OF BOTTOM</th>
<th>NUMBER TAKEN OR OBSERVED</th>
<th>IDENT (OR &quot;FIELD&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>deLauben fels verbal ident.</td>
<td>Carmel outer reef</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PG, opp Railway Sta Pt Pinos, north of foghorn Santa Cruz, caves several miles west of town</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**NAME**

**CLASS** Calcarea

**ORDER**

**FAMILY**

**APPROX. GEOGR. RANGE**

**BATHY. ZONE:** shore

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

**OBVIOUS CHARACTERS**

<table>
<thead>
<tr>
<th>EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)</th>
<th>TIDAL HORIZON (OR DEPTH IF DREDGED)</th>
<th>TYPE OF BOTTOM:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(EXPOSED, SEMI-PROTECTED, SHELTERED)</td>
<td>Low (HIGH, MEDIUM, LOW, EXTREME LOW, DREDGED)</td>
<td>Rky (REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)</td>
</tr>
</tbody>
</table>

**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.:**

Very common in well aerated, clean low tide areas in the MB region. Especially common in rock pools in the LH region and around the great rock to the north.

CAPE FLATTERY TO PT. CONCEPTION
<table>
<thead>
<tr>
<th>NAME</th>
<th>Leucosolenia eleanor</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>DATE</th>
<th>REGION, STATION, POSITION, ETC.</th>
<th>BATHY-METRIC ZONE</th>
<th>DEPTH OR TIDAL HORIZON</th>
<th>EXPOSURE TO WAVE SHOCK</th>
<th>TYPE OF BOTTOM</th>
<th>NUMBER TAKEN OR OBSERVED</th>
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<td></td>
<td></td>
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</tr>
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IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS
**Halíasarca**

**CLASS** Myxospongia

**ORDER**

**FAMILY**

### OBVIOUS CHARACTERS

<table>
<thead>
<tr>
<th>EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)</th>
<th>TIDAL HORIZON (OR DEPTH IF DREDGED)</th>
<th>TYPE OF BOTTOM:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(EXPOSED, SEMI-PROTECTED, SHELTERED)</td>
<td>(HIGH, MEDIUM, LOW, EXTREME LOW, DREDGED)</td>
<td>(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)</td>
</tr>
</tbody>
</table>

### 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.:
<table>
<thead>
<tr>
<th>Date</th>
<th>Region, Station, Position, Etc.</th>
<th>Bathymetric Zone</th>
<th>Depth or Tidal Horizon</th>
<th>Exposure to Wave Shock</th>
<th>Type of Bottom</th>
<th>Number Taken Or Observed</th>
<th>Ident. (Or &quot;Field&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 68.1</td>
<td>Elghorn Slough, on shore rocks at Scyphis station</td>
<td>shore</td>
<td>low</td>
<td>prot</td>
<td>rky</td>
<td>Ident.</td>
<td>by deLaubenfels</td>
</tr>
</tbody>
</table>

1931?
**Suberites sp**

**NAME**

**APPROX. GEOGR. RANGE**

**BATHY. ZONE:** Shore (SHORE, PILING, DREDGED, PELAGIC, ETC.)

**CLASS**

**ORDER**

**FAMILY**

**OBVIOUS CHARACTERS**

Looks like *Tetilla mutabilis* at Balboa; a dome-like yellow sponge of firm consistency

<table>
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<tr>
<th>EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)</th>
<th>TIDAL HORIZON (OR DEPTH IF DREDGED)</th>
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</tr>
</tbody>
</table>

**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.:**

PBL SURVEY CARD—BUFF

CAPE FLATTERTY TO PT. CONCEPTION
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</tr>
</thead>
<tbody>
<tr>
<td>17 Jan'31</td>
<td>Carmel reef, north of usual region</td>
<td>shore</td>
<td>low</td>
<td>Semi</td>
<td>Rky</td>
<td>Gislen verbal ident.s</td>
<td></td>
</tr>
<tr>
<td>13 Feb'31</td>
<td>Santa Cruz, usual cave region, on surface of ledge</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td></td>
</tr>
</tbody>
</table>
**Tethya aurantia**

**Class**

**Order**

**Family**

The hemispherical brick-red sponge. When cut open, prominent canals are seen radiating from center.

**OBVIOUS CHARACTERS**

<table>
<thead>
<tr>
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</tr>
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**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.**

**PBL SURVEY CARD—BUFF**

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</thead>
<tbody>
<tr>
<td>17 Jan'31</td>
<td>Carmel, usual region, in crevices and sides of rocks</td>
<td>shore</td>
<td>low</td>
<td>Semi-</td>
<td>Rky</td>
<td>EFR</td>
<td></td>
</tr>
</tbody>
</table>
**Toxastrella texta deLaubenfels**

**NAME**

**CLASS**

**ORDER**

**FAMILY**

**APPROX. GEOGR. RANGE**

**BATHY. ZONE:** Dredged

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

The dome shaped "hexactinellid" that looks like illustrations of *Phoronema*

**OBVIOUS CHARACTERS**

<table>
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<tr>
<th>EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)</th>
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**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.:**

PBL SURVEY CARD—BUFF

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<th>EXPOSURE TO WAVE SHOCK</th>
<th>TYPE OF BOTTOM</th>
<th>NUMBER TAKEN OR OBSERVED</th>
<th>IDENT (OR &quot;FIELD&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13Mch '25</td>
<td>14 miles out of Santa Cruz, black cod men</td>
<td>Dredged 400 fms</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>delau benfel</td>
</tr>
</tbody>
</table>
**Aphrocalliste sp**

**CLASS** *Hexactinellidae*

**APPROX. GEOGR. RANGE**

**BATHY. ZONE:** Dredged

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

**ORDER**

**FAMILY**

**OBVIOUS CHARACTERS**

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**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.:**

PBL SURVEY CARD—BUFF

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<th>TYPE OF BOTTOM</th>
<th>NUMBER TAKEN OR OBSERVED</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 72.1</td>
<td>Shale, 6 miles off Pt Pinos</td>
<td>very lg, black, horny</td>
<td>185 fms</td>
<td></td>
<td></td>
<td>deLaubenfels</td>
</tr>
<tr>
<td>80.2</td>
<td>Shale, Monterey Bay</td>
<td></td>
<td>200 fms</td>
<td>large erect</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Haliclona permollis, the old
NAME
Reneira cineria Bowerbank

CLASS Demospongiae

ORDER

FAMILY

APPROX. GEOGR. RANGE

BATHY. ZONE: Shore
(SHORE, PILING, DREDGED, PELAGIC, ETC.)

Vivid lavendar, with volcano-like oscula

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.)

Encrusting on rock faces, in crevices, etc. Roofs of low tide caves

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

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:
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<tr>
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<th>EXPOSURE TO WAVE SHOCK</th>
<th>TYPE OF BOTTOM</th>
<th>NUMBER TAKEN OR OBSERVED</th>
<th>IDENT (OR &quot;FIELD&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>deL verbal</td>
<td>Carmel, rock pools well out</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>deL</td>
</tr>
<tr>
<td></td>
<td>PG, with Eudendrium</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**NAME**

**APPROX. GEOGR. RANGE**

**BATHY. ZONE:**
(SHORE, PILING, DREDGED, PELAGIC, ETC.)

**CLASS**

**ORDER**

**FAMILY**

The giant black sponge as at Pt Joe

**OBVIOUS CHARACTERS**

<table>
<thead>
<tr>
<th>EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)</th>
<th>TIDAL HORIZON (OR DEPTH IF DREDGED)</th>
<th>TYPE OF BOTTOM:</th>
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**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.**

PBL SURVEY CARD—BUFF

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<th>Ident (Or &quot;Field&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>?</td>
<td>Pt Joe region</td>
<td>shore</td>
<td>low</td>
<td>Semi</td>
<td>Rky</td>
<td>1 or 2 great masses</td>
<td>deLau</td>
</tr>
</tbody>
</table>

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

**CLASS**

**ORDER**

**FAMILY**

**APPROX. GEOGR. RANGE**

**BATHY. ZONE:** Shore

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

**OBVIOUS CHARACTERS**

Encrusting, white, glittering sharp and bad spicules.

No osculum

<table>
<thead>
<tr>
<th>EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)</th>
<th>TIDAL HORIZON (OR DEPTH IF DREDGED)</th>
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**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.**

PBL SURVEY CARD—BUFF

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</tr>
</thead>
<tbody>
<tr>
<td>?</td>
<td>Pescadero Pt on the 17 mi drive, roofs of caves</td>
<td>shore</td>
<td>low</td>
<td>Semi</td>
<td>rky</td>
<td>delaubenfel</td>
<td></td>
</tr>
</tbody>
</table>

If additional space is needed, use unprinted 4 x 6 white cards.
**Geodia**

**NAME**

**CLASS**

**ORDER**

**FAMILY**

The large globular sponge with sharp (but harmless) spicules, osculum not big

**OBVIOUS CHARACTERS**

<table>
<thead>
<tr>
<th>EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)</th>
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**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.**

PBL SURVEY CARD—BUFF

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</thead>
<tbody>
<tr>
<td>?</td>
<td>Crml reef region</td>
<td>shore</td>
<td>low</td>
<td>semi</td>
<td>rky</td>
<td>deLaubenfels</td>
<td></td>
</tr>
</tbody>
</table>
**CLASS**

**ORDER**

**FAMILY**

**NAME**

**APPROX. GEOGR. RANGE**

**BATHY. ZONE:** Dredged

(Shore, Piling, Dredged, Pelagic, etc.)

This is the cake-like form so commonly dredged at this station. Pale dirty yellow to gray

**OBVIOUS CHARACTERS**

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<td>(Exposed, Semi-Protected, Sheltered)</td>
<td>(High, Medium, Low, Extreme Low, Dredged)</td>
<td>(Reef, Rocks, Boulders, Gravel, Sand, Mud)</td>
</tr>
</tbody>
</table>

**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.:**

PBL SURVEY CARD—BUFF

CAPE FLATTERY TO PT. CONCEPTION
<table>
<thead>
<tr>
<th>Date</th>
<th>Region, Station, Position, Etc.</th>
<th>Bathymetric Zone</th>
<th>Depth or Tidal Horizon</th>
<th>Exposure to Wave Shock</th>
<th>Type of Bottom</th>
<th>Number Taken Or Observed</th>
<th>Ident (Or &quot;Field&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 Apr '25</td>
<td>14 mi out of Santa Cruz. Black cod men</td>
<td>Dredged</td>
<td>400 fms</td>
<td>Shaly mud</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Axinella sinaeos**

**NAME**

**CLASS**

**ORDER**

**FAMILY**

**APPROX. GEOGR. RANGE**

**BATHY. ZONE:** Shore

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

**The thin, yellow-green, slightly slimy, papillated sponge**

**OBVIOUS CHARACTERS**

<table>
<thead>
<tr>
<th>EXPOSURE TO SURF (OR, IF STATED, TO TIDAL CURRENTS)</th>
<th>TIDAL HORIZON (OR DEPTH IF DREDGED)</th>
<th>TYPE OF BOTTOM:</th>
</tr>
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<tbody>
<tr>
<td>(EXPOSED, SEMI-PROTECTED, SHELTERED)</td>
<td>(HIGH, MEDIUM, LOW, EXTREME LOW, DREDGED)</td>
<td>(REEF, ROCKS, BOULDERS, GRAVEL, SAND, MUD)</td>
</tr>
</tbody>
</table>

**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.:**

PBL SURVEY CARD—BUFF

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<th>Ident (or &quot;Field&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 Jan '31</td>
<td>Down the coast, above the 1st steel bridge south of Highlands</td>
<td>Shore</td>
<td>Low</td>
<td>Open</td>
<td>Rky</td>
<td>Dr Gislen ident</td>
<td></td>
</tr>
</tbody>
</table>
**NAME**

**CLASS**

**ORDER**

**FAMILY**

**APPROX. GEOGR. RANGE**

**BATHY. ZONE:** shore

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

**OBVIOUS CHARACTERS**

<table>
<thead>
<tr>
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</tr>
</tbody>
</table>

**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.:**

PBL SURVEY CARD—BUFF

CAPE FLATTERY TO PT. CONCEPTION
<table>
<thead>
<tr>
<th>DATE</th>
<th>REGION, STATION, POSITION, ETC.</th>
<th>BATHYMETRIC ZONE</th>
<th>DEPTH OR TIDAL HORIZON</th>
<th>EXPOSURE TO WAVE SHOCK</th>
<th>TYPE OF BOTTOM</th>
<th>NUMBER TAKEN OR OBSERVED</th>
<th>IDENT (OR &quot;FIELD&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>68.2</td>
<td>Elkhorn Slough, scyphistoma station</td>
<td>shore</td>
<td>low</td>
<td>prot</td>
<td>rky</td>
<td>deLaubenfels</td>
<td></td>
</tr>
<tr>
<td>1930-31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

IF ADDITIONAL SPACE IS NEEDED, USE UNPRINTED 4 X 6 WHITE CARDS
**Axinella sp?**

**NAME**

**APPROX. GEOGR. RANGE**

**BATHY. ZONE:** shore

(Shore, Piling, Dredged, Pelagic, Etc.)

**CLASS**

**ORDER**

**FAMILY**

**OBVIOUS CHARACTERS**

Thin red, slippery encrusting sponge with fine papillae. Except for color, looks like Axinella

**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)

**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.:**

PBL SURVEY CARD—BUFF

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<th>Date</th>
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<th>Identi (Or &quot;Field&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 Feb'31</td>
<td>Santa Cruz, under ledge in cave</td>
<td>shore</td>
<td>low</td>
<td>Semi</td>
<td>Rky</td>
<td>Ident. by Gislén</td>
<td></td>
</tr>
</tbody>
</table>
Myxilla noxiosa

NAME

CLASS

ORDER

FAMILY

The thick, spongy, yellow encrusting sponge with the strong odor

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)

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.

PBL SURVEY CARD—BUFF

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<tr>
<td>16 Jan '31</td>
<td>Down the coast above the 1st steel bridge S of Highlands</td>
<td>shore</td>
<td>low</td>
<td>Open</td>
<td>Rky</td>
<td>Dr. Gislen ident.</td>
<td></td>
</tr>
</tbody>
</table>
Ophlitaspongia pennata Lambe  

NAME

CLASS

ORDER

FAMILY

APPROX. GEOGR. RANGE  

BATHY. ZONE: shore 

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

The red encrusting sponge with stellate oscula 

OBVIOUS CHARACTERS

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</tr>
</tbody>
</table>

SUMMARY OF OBSERVATIONAL DATA

POSITION:  

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

 VEGETATION:  

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

ASSOCIATES, COMMENSALS:

BREEDING SEASON, COLOR IN LIFE, ETC.:
<table>
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<th>Type of Bottom</th>
<th>Number Taken OrObserved</th>
<th>Ident (Or &quot;Field&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8July'29</td>
<td>No region stated on original card. &quot;Observed and stated to be by W F deL&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Poecillastra**  
**NAME**

**APPROX. GEOGR. RANGE**

**BATHY. ZONE:** Dredged  
(SHORE, PILING, DREDGED, PELAGIC, ETC.)

**ORDER** Tetraaxonida  
**FAMILY**

**OBVIOUS CHARACTERS**

<table>
<thead>
<tr>
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**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.**

PBL SURVEY CARD—BUFF

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<th>Ident (Or &quot;Field&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 60.1</td>
<td>Piece of sponge brought in by Chin Yip. With anemones and corals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1931-2 ?</td>
<td></td>
<td>dredged 65 fms</td>
<td></td>
<td></td>
<td></td>
<td>Ident by deLauben.</td>
<td></td>
</tr>
</tbody>
</table>

If additional space is needed, use unprinted 4 x 6 white cards.
**Plocamia lithophoenix deLaubenfels**

**Name**

**Class**

**Order**

**Family**

**Approx. Geogr. Range**

**Bathy. Zone:** Shore

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

The very thick encrusting red sponge with reticulated surface; looks like dried, crusted mud

**Obvious Characters**

<table>
<thead>
<tr>
<th>Exposure to Surf (Or, if Stated, to Tidal Currents)</th>
<th>Tidal Horizon (Or Depth if Dredged)</th>
<th>Type of Bottom:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Exposed, Semi-Protected, Sheltered)</td>
<td>(High, Medium, Low, Extreme Low, Dredged)</td>
<td>(Reef, Rocks, Boulders, Gravel, Sand, Mud)</td>
</tr>
</tbody>
</table>

**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.:**

**PBL Survey Card—Buff**

CAPE FLATTERY TO PT. CONCEPTION
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<th>Ident (Or &quot;Field&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Febr '31</td>
<td>Paso Robles Beach, north of Morro Beach, San Luis Obispo Co. on sides of rock</td>
<td>shore</td>
<td>low</td>
<td>semi to rky</td>
<td>open</td>
<td>ident. by Dr. Gislen</td>
<td></td>
</tr>
</tbody>
</table>