

VERTICAL AND HORIZONTAL ZONATION STUDY OF
BOILER BAY
Tide -1.8

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Station #1 This area was a straight face ten or eleven feet tall; the bottom foot was heavily undercut by the sea urchin, *Strongylocentrotus purpuratus*. At low tide at 7:30 AM, this area was approximately 30 feet from the waters edge.

Faunal list at Station #1

Bottom shelf:

Porifera

Plocamia karykina - red sponge

Lissondendoryx noxiosa - the dirty yellow sponge

Aplysilla glacialis - rose colored, no spicules and numerous pointed peaks.

Coelenterates

Anthopleura xanthogramica

Tealia crassicornis - the red and green anemone

Abietinaria spp.

Sipunculids

Phascolosoma agassizii

Dendrostoma sp.

Annelids

Neoamphitrite - very long white tentacles

Serpula spp. - three different types of tentacle coloration displayed.

Eudistylia - the sandy tube worm

- the basket tube worm

Halosydna sp. - the scale worm.

Mollusca

Mytilus californianus

Protothaca tenerrimia - nestler clam

Tegula funebris - turban snail

Calliostoma sp. - spiral snail

Tonicella lineata - small lined chiton

Diadora aspera

Echinoderms

Henricia leviuscula - numerous small ones

Pisaster ochraceus - located from here up to the -2' level

Arthropods

- Cirolana harfordi - medium size gray isopod
- Spirontocaris sp. - black broken-back shrimp
- Oedignathus sp. - soft-bellie crab
- Pagurus hirsutiisculus - hermit crab

Ectoprocta

- Encrusting white bryozoan (Crisia spp ?)

0' to 1' level This includes the fauna which growing on the roof of the undercut area. This fauna was immediately adjacent but markedly different from the bottom.

- Haliclona permolis - dull, dirty white sponge
- Octacoral
- Penitella penita - the burrowing clam
- The basket tube worm

1' to 2' level

- Oedignathus) many of the animals of the lower
- Tonicella lineata) levels survive in the large burrows
- Serpula spp.) here. e.g. Anthopleura

3' to 6' level

Three foot bare region only covered by very small, young, gray barnacles.

6' to 8' level

- Balanus glandula
- Mitella polymerus
- Littorina planaxis
- Anthopleura elegantissima
- White nemertean

Station #2 This area was about 60 feet above Station #1. There was a tide pool at the base of the face with a few Anthopleura xanthogrammica and numerous Strongylocentrotus purpuratus. This face was not undercut.

At 4.5' and below the most conspicuous biota was a brown algae. Above the 4.5' was the barnacle zone and this area was covered by the small, gray, young barnacles. In this area there were scattered isopods and numerous limpets, Acmaea digitalis.

This face was over 20 feet tall and there was no Mytilus-Mitella beds at the higher levels but the area was covered by numerous periwinkles, Littorina planaxis.

The gum boot chiton and Plocamia were found in a large crevice.