Floating Docks

"I don't feel so good."
-everyone who spends more than an hour on a floating dock

MAJOR TAXA (lots-see species list on reverse side)

MAJOR THEMES habitat description diversity differences in shear community structure

TOP TEN LIST

Top "ten" ideas to investigate and understand about this habitat:

- 6. Why are these communities so diverse?
- 5. Most physical parameters are relatively constant
- 4. Importance of competition
- 3. Variations within the habitat
- 2. Lifestyles of the Benthic and Floating
- 1. Ideas about 'communities': static/dynamic, real/imaginary

OUESTIONS

Some topics to pursue or ponder while you're stuck on the dock:

- In the winter most of the algae growing on the tires dies or is reduced to holdfasts. How
 would the loss of this group or other species affect the distribution and relative abundance of
 other members of the float community?
- How much of community structure is determined by substrate? Do wooden portions of the floating docks harbor different organisms?
- How do differences in the hydrodynamic conditions affect the distribution of diversity? Do some organisms 'prefer' certain hydrodynamic conditions, or rather is their distribution determined by competition?
- How do various organisms deal with the limited space resource?
- How do the qualities of this habitat relate to the four themes each group examined? For example, how do the processes of sexual and asexual reproduction contribute to the observed diversity? What proportion of the organisms on the floats are sedentary vs. mobile, and why? What methods of defense are employed by these organisms, and how do these methods differ from those used by the organisms in your studied habitat? Do most organisms on the tires derive their nutrition from the plankton, or from their tire-mates?
- Do Zoology 432 T.A.s float?

Ph. Porifera

Halichondria bowerbanki Scypha

Ph. Cnidaria

Garveia annulata Plumularia setacea Other Hydroids Metridium senile Urticina spp.

Cl. Polychaeta

Serpulidae Sabellidae Spirorbidae

Ph. Mollusca

Tonicella lineata (chiton) Collisella pelta (limpet) Mytilus edulis (mussel)

Ph. Bryozoa

Bugula californica
Bugula pacifica
Dendrobeania lichenoides
Membranipora membranacea
Scrupucellaria
Encrusting bryozoans

Cl. Cirripedia

Balanus nubilis (big guys)
B. glandula + B. crenatus (little guys)

Cl. Ascidiacea

Chelyosoma productum Boltenia villosa Distaplia occidentalis Aplidium spp. Corella inflata

Algae

Mastocarpus papillatus
Ulva fenestrata
Laminaria saccharina
Callophyllis edentata
Desmarestia viridis
Membranoptera platyphylla
Alaria marginata
Porphyra sp.
Iridaea cordata