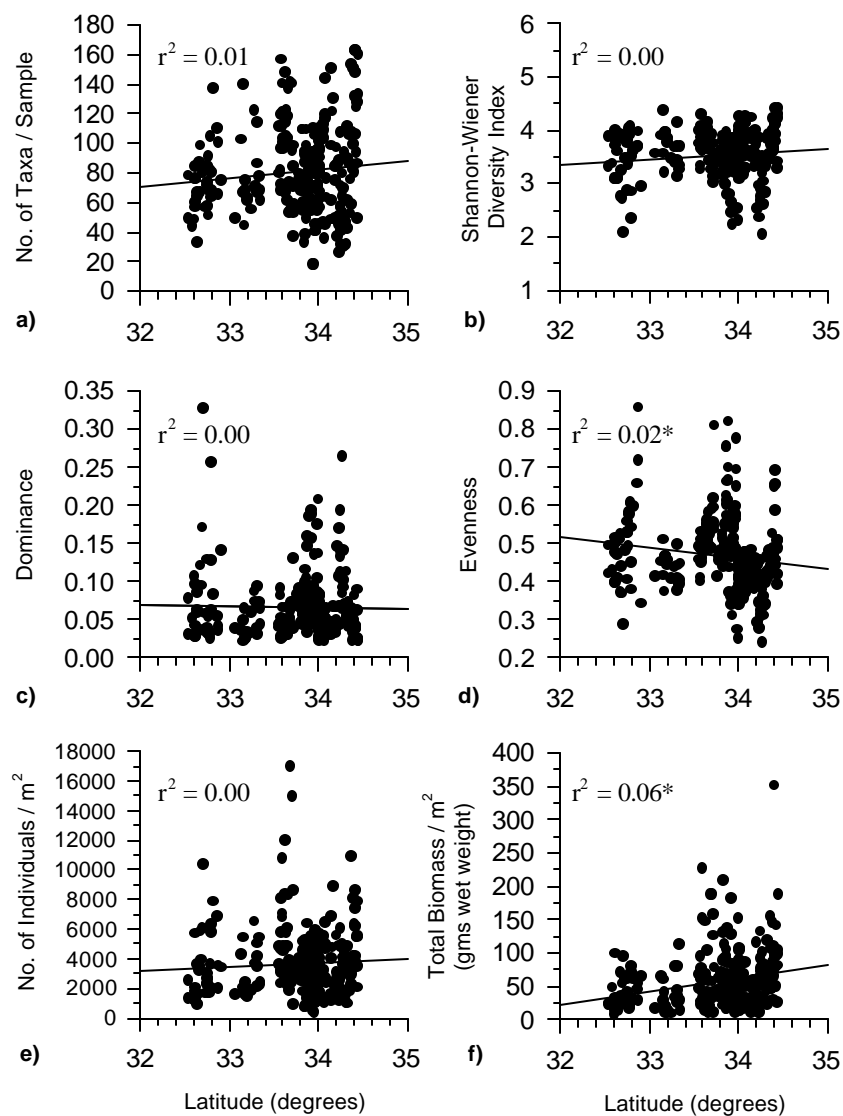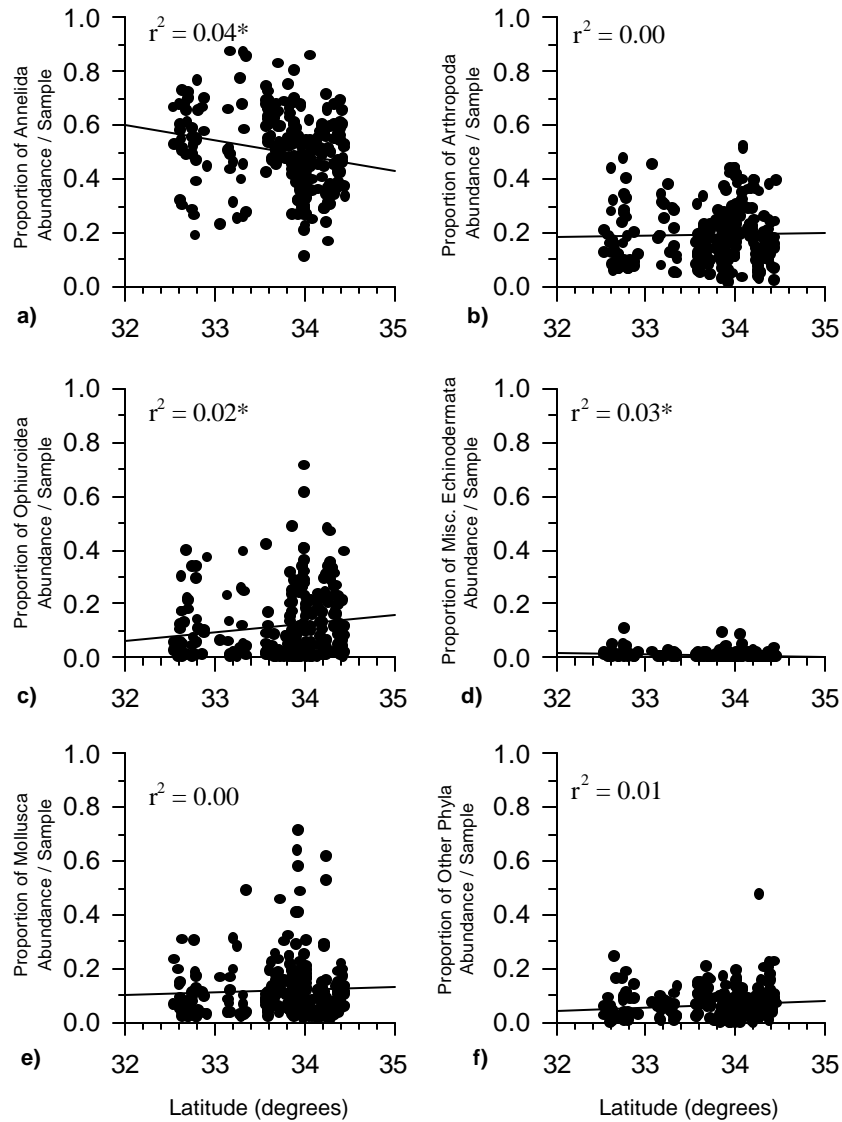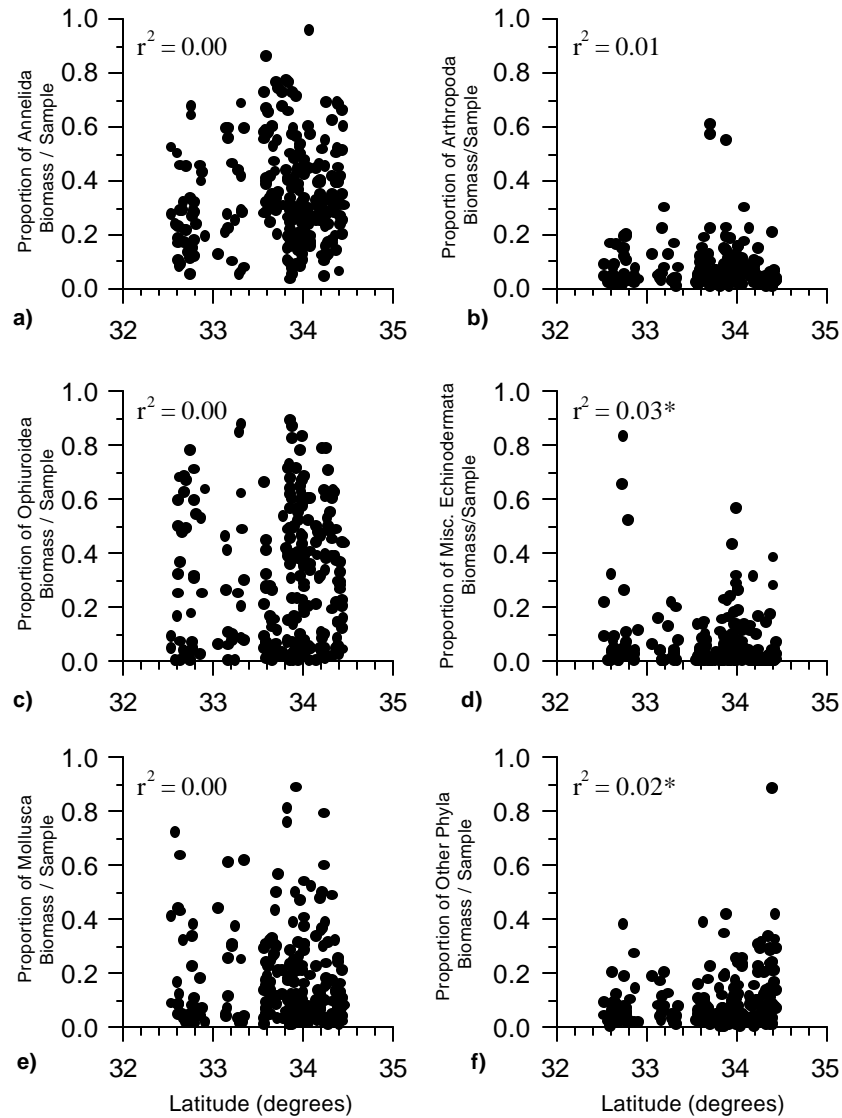# APPENDIX F:

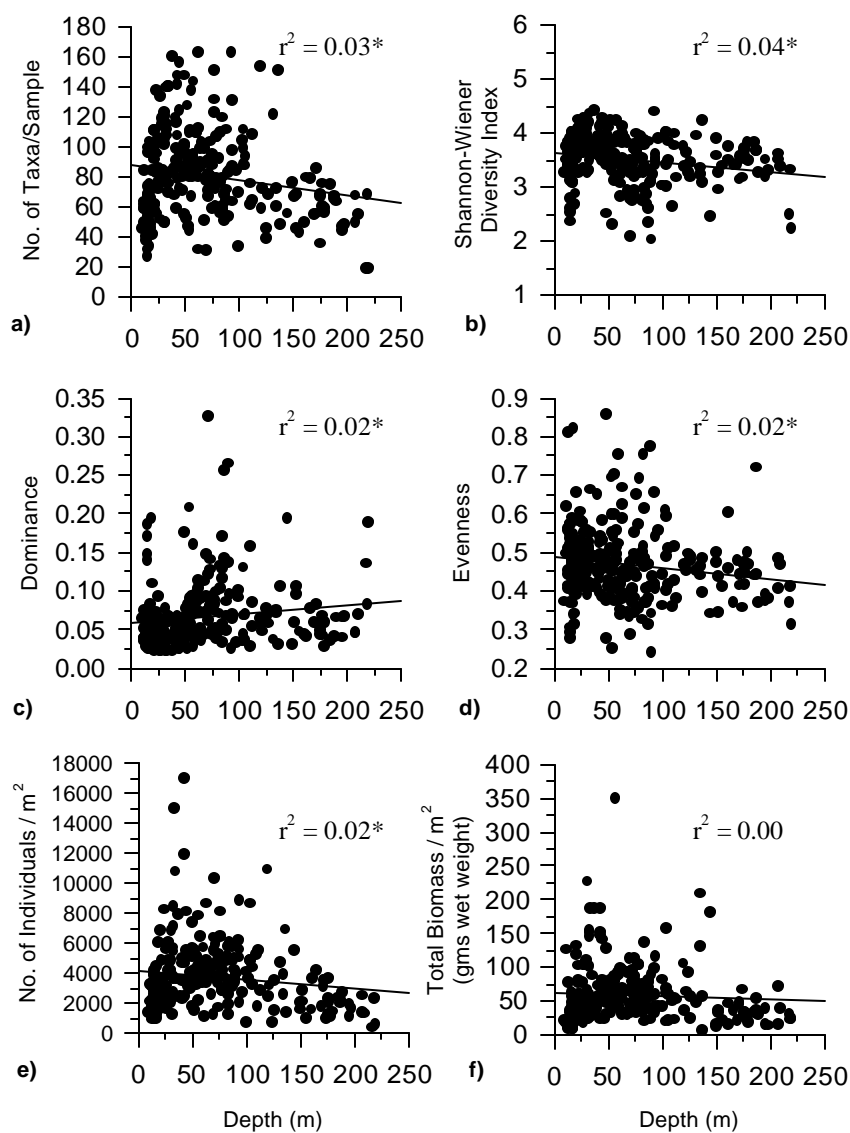Regressions of Community Characteristics
Versus Latitude and Depth

Appendix F1. Community characteristics of the Southern California Bight vs. latitude: a) number of taxa, b) Shannon-Wiener diversity index, c) dominance, d) evenness, e) total abundance / m², and f) total biomass / m². * = significant.
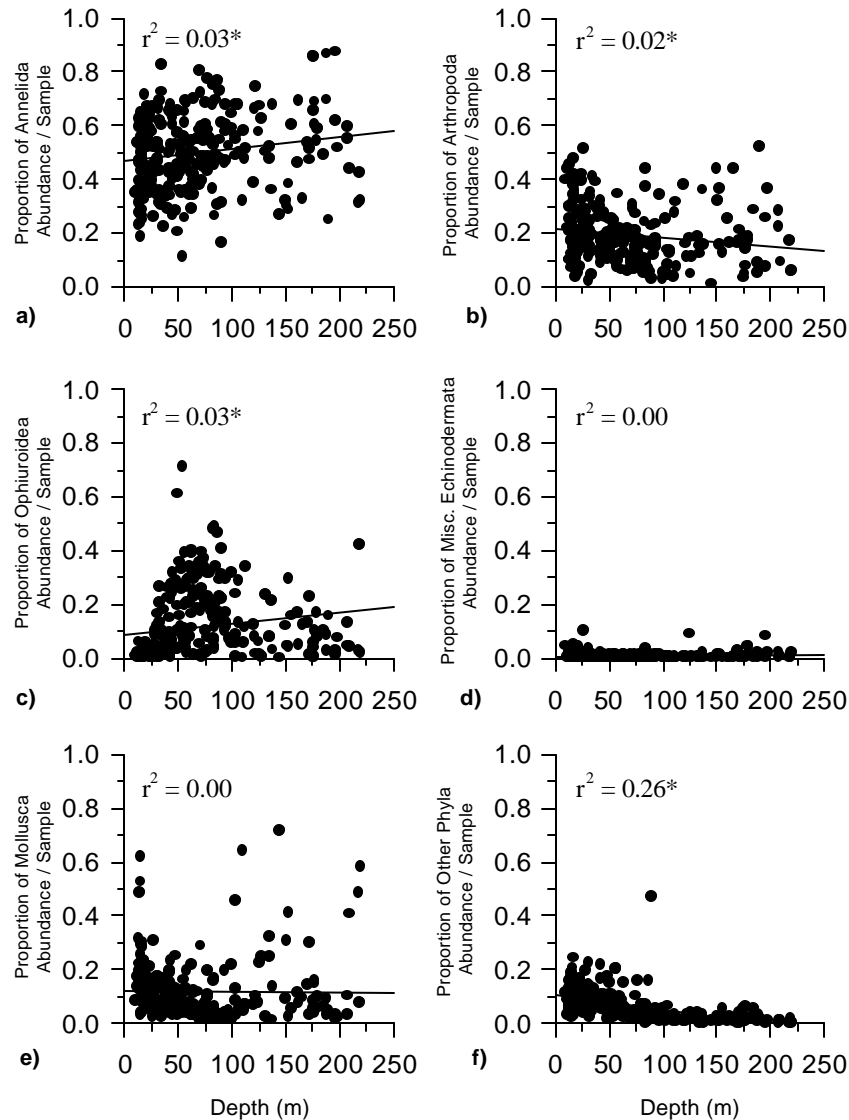
Appendix F2. Proportion of infaunal abundance / sample of six taxonomic groups on the Southern California Bight vs. latitude: a) annelida, b) arthropoda, c) ophiuroidea, d) misc. echinodermata, e) mollusca and f) other phyla. * = significant.

a) $r^2 = 0.00$

b) $r^2 = 0.01$

c) $r^2 = 0.00$

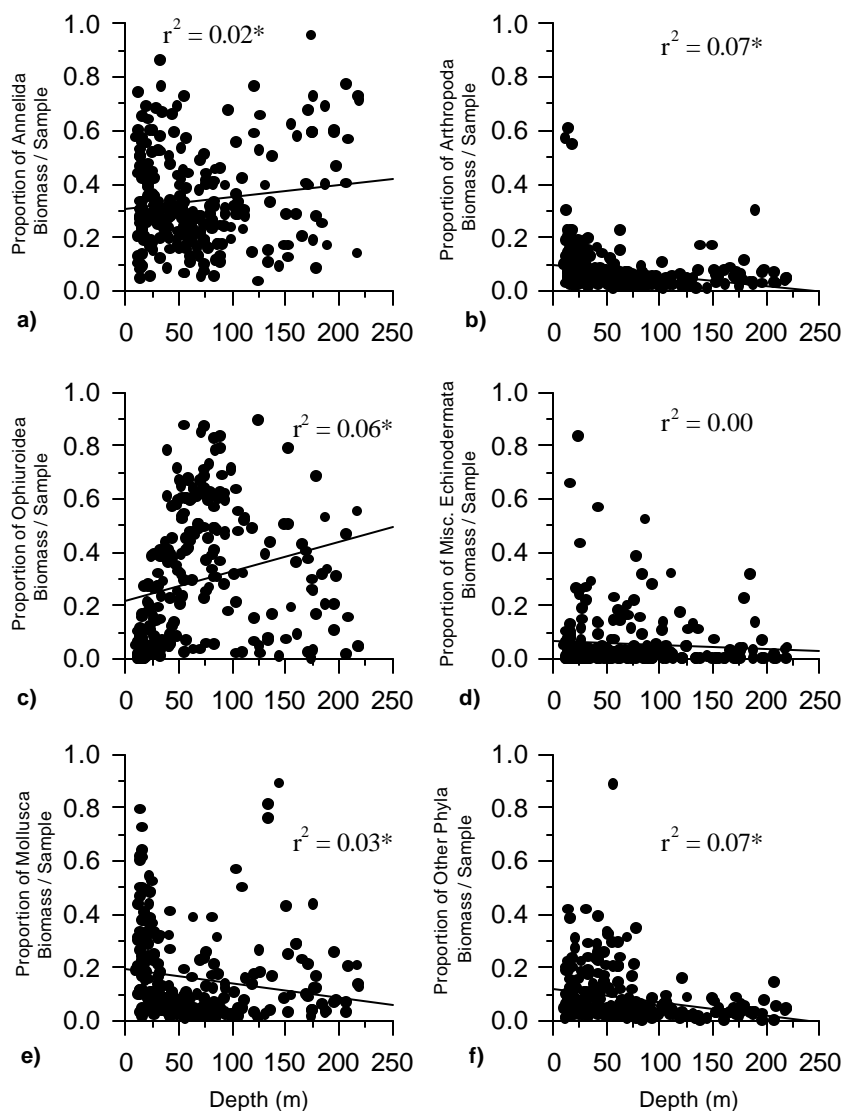d) $r^2 = 0.03*$

e) $r^2 = 0.00$

f) $r^2 = 0.02*$

Appendix F3. Proportion of infaunal biomass (gms wet weight) / sample of six taxonomic groups on the Southern California Bight vs. latitude: a) annelida, b) arthropoda, c) ophiuroidea, d) misc. echinodermata, e) mollusca and f) other phyla. * = significant.

a) $r^2 = 0.03*$

b) $r^2 = 0.04*$

c) $r^2 = 0.02*$

d) $r^2 = 0.02*$

e) $r^2 = 0.02*$

f) $r^2 = 0.00$

Depth (m)

Depth (m)

Appendix F4. Community characteristics of the Southern California Bight vs. depth: a) number of taxa, b) Shannon-Wiener diversity index, c) dominance, d) evenness, e) total abundance / m^2, and f) total biomass / m^2. * = significant.

a) $r^2 = 0.03*$ — Proportion of Annelida Abundance / Sample vs. Depth (m)

b) $r^2 = 0.02*$ — Proportion of Arthropoda Abundance / Sample vs. Depth (m)

c) $r^2 = 0.03*$ — Proportion of Ophiuroidea Abundance / Sample vs. Depth (m)

d) $r^2 = 0.00$ — Proportion of Misc. Echinodermata Abundance / Sample vs. Depth (m)

e) $r^2 = 0.00$ — Proportion of Mollusca Abundance / Sample vs. Depth (m)

f) $r^2 = 0.26*$ — Proportion of Other Phyla Abundance / Sample vs. Depth (m)

Appendix F5. Proportion of infaunal abundance / sample of six taxonomic groups on the Southern California Bight vs. depth: a) annelida, b) arthropoda, c) ophiuroidea, d) misc. echinodermata, e) mollusca and f) other phyla. * = significant.

a)

b)

c)

d)

e)

f)

Depth (m)

Depth (m)

Appendix F6. Proportion of infaunal biomass (gms wet weight) / sample of six taxonomic groups on the Southern California Bight vs. depth: a) annelida, b) arthropoda, c) ophiuroidea, d) misc. echinodermata, e) mollusca, and f) other phyla. * = significant.