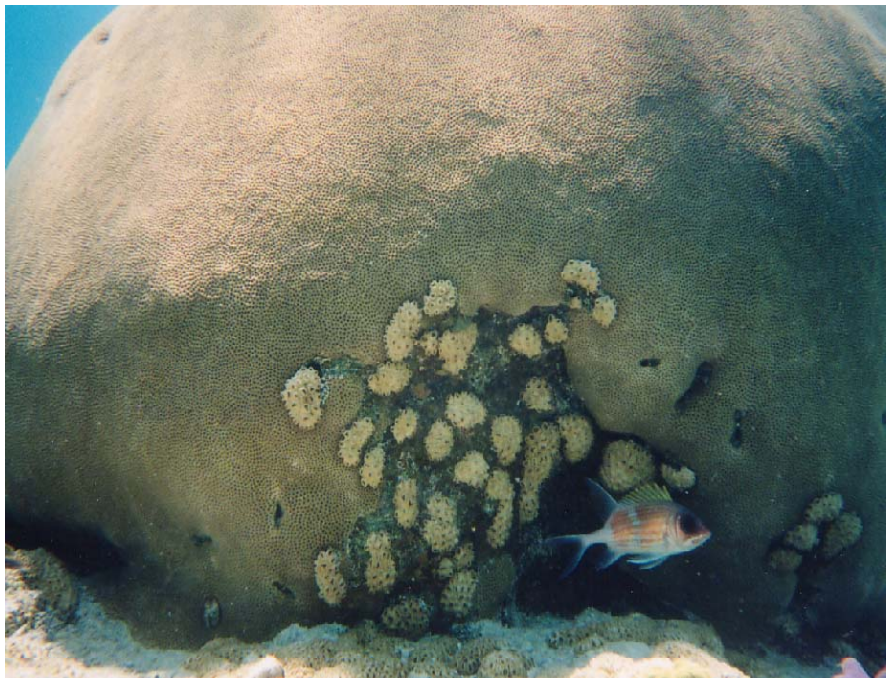
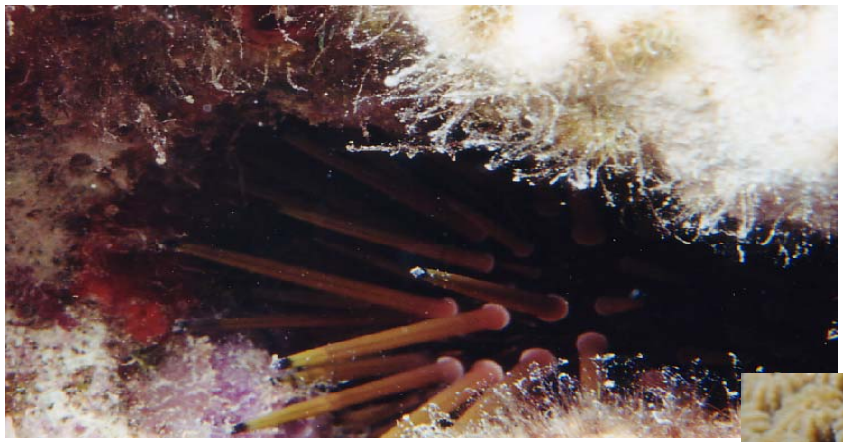
Extent And History Of Nutrient Loading In The Florida Keys



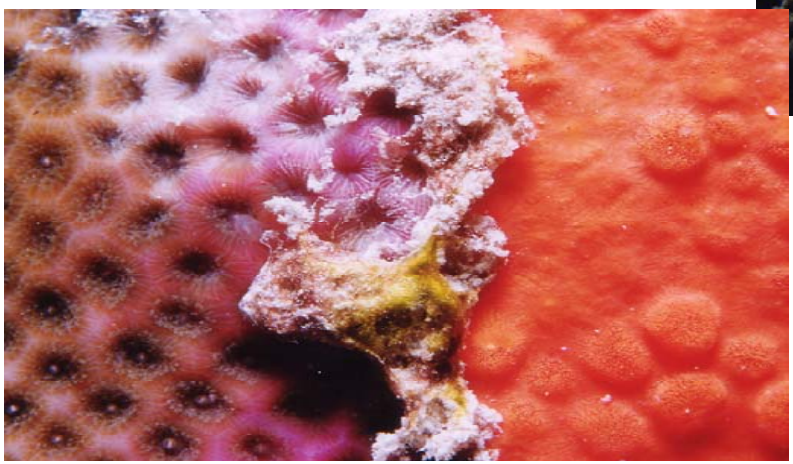
….hanging out in the sun

Bioerosion



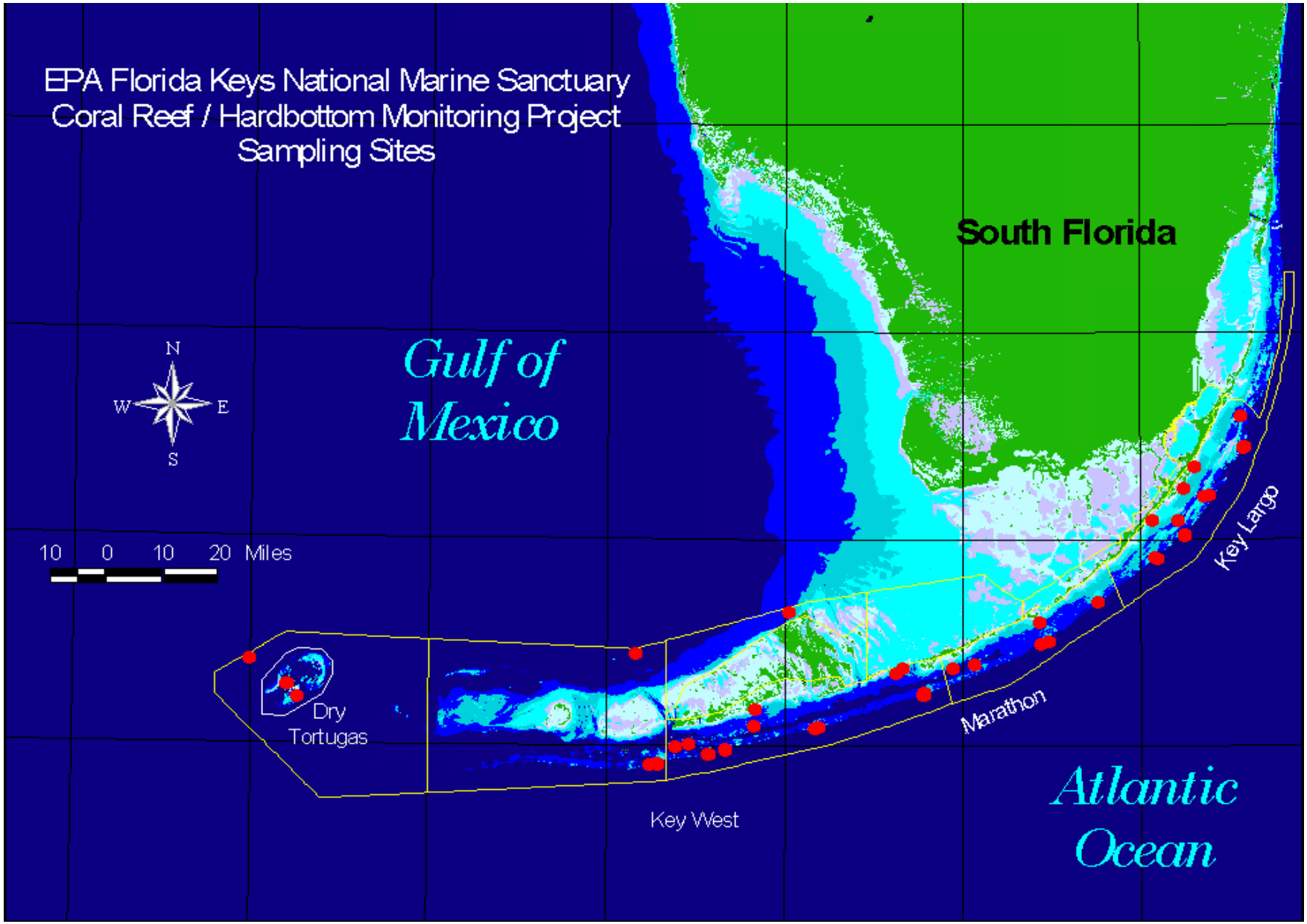
Sea Urchins

Parrot Fish



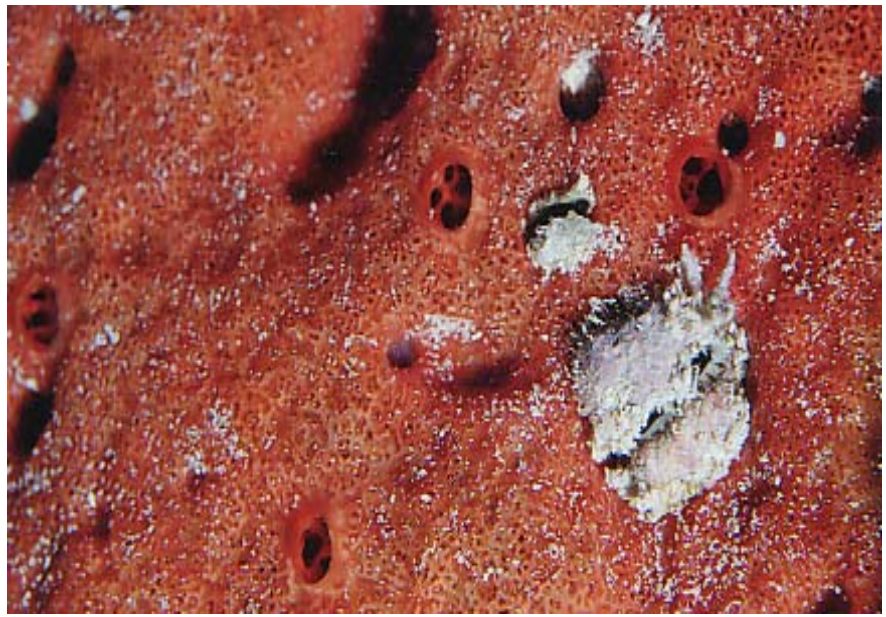
Boring Sponges

.....abundant


EPA Florida Keys National Marine Sanctuary
Coral Reef / Hardbottom Monitoring Project
Sampling Sites
South Florida
Gulf of Mexico
N
W
E
S
10 0 10 20 Miles
Dry Tortugas
Key West
Marathon
Key Largo
Atlantic Ocean

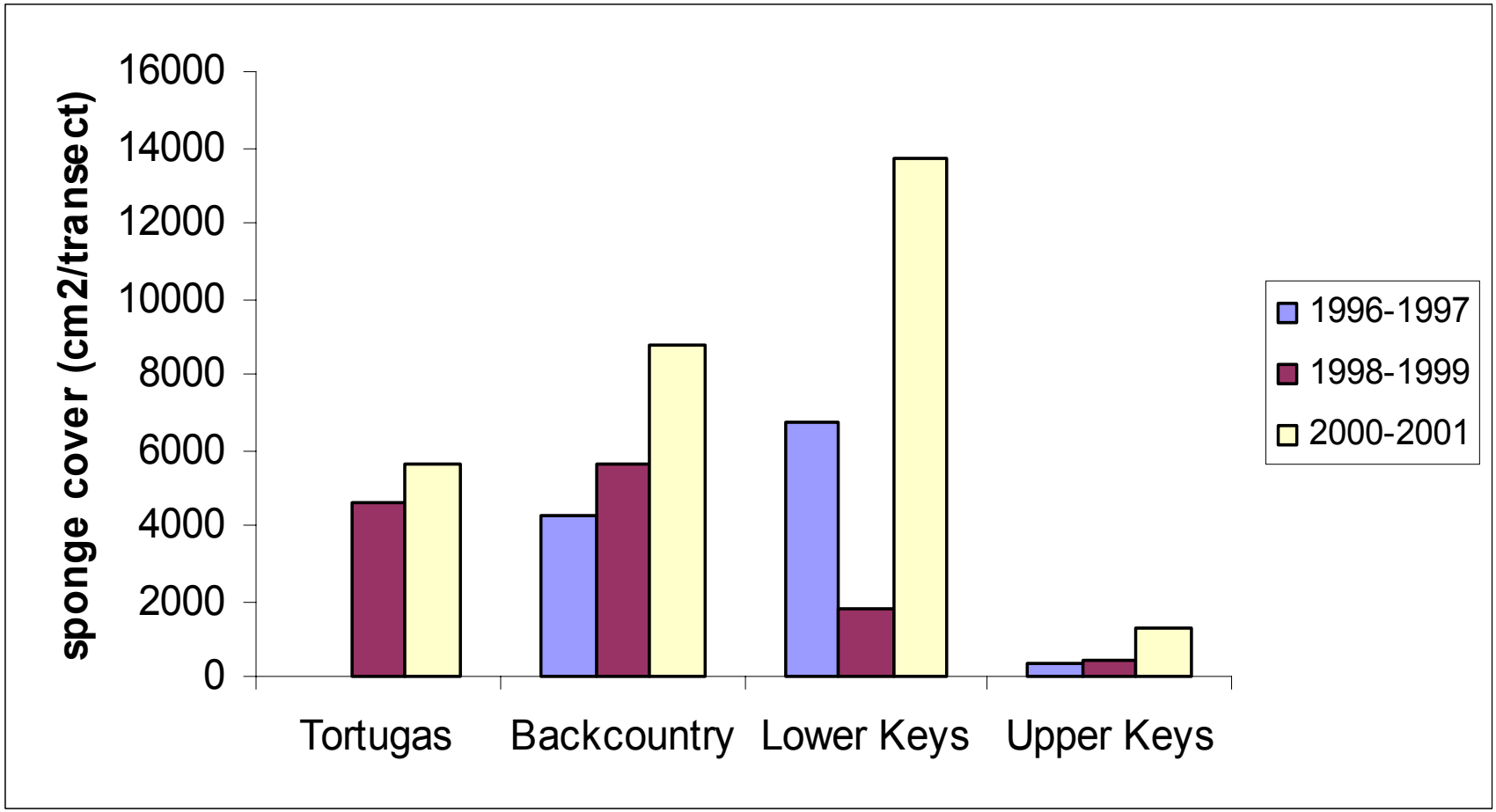
Key Bioeroders…

Cliona delitrix

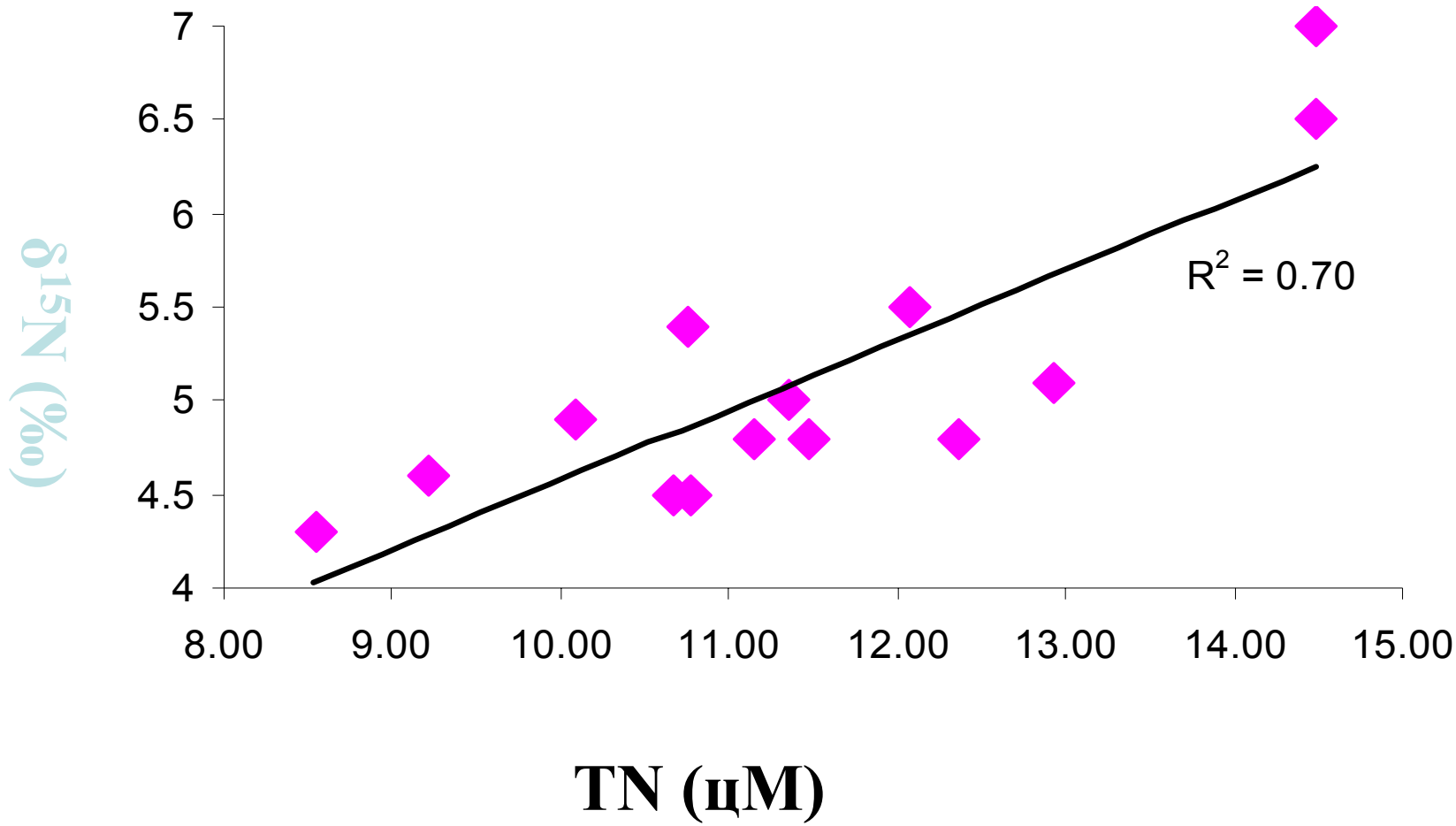


Cliona lampa

Boring Sponge Cover- by region



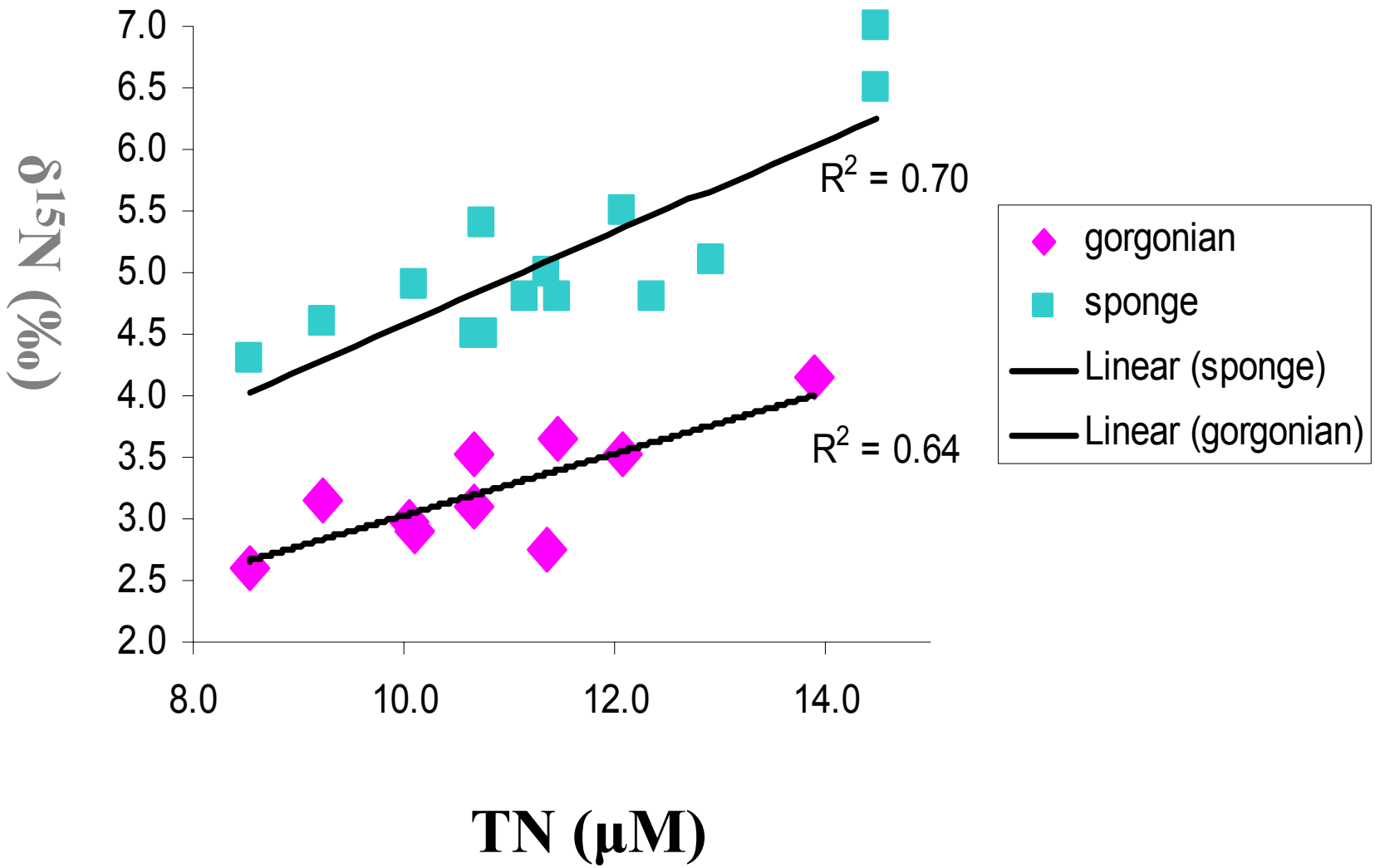
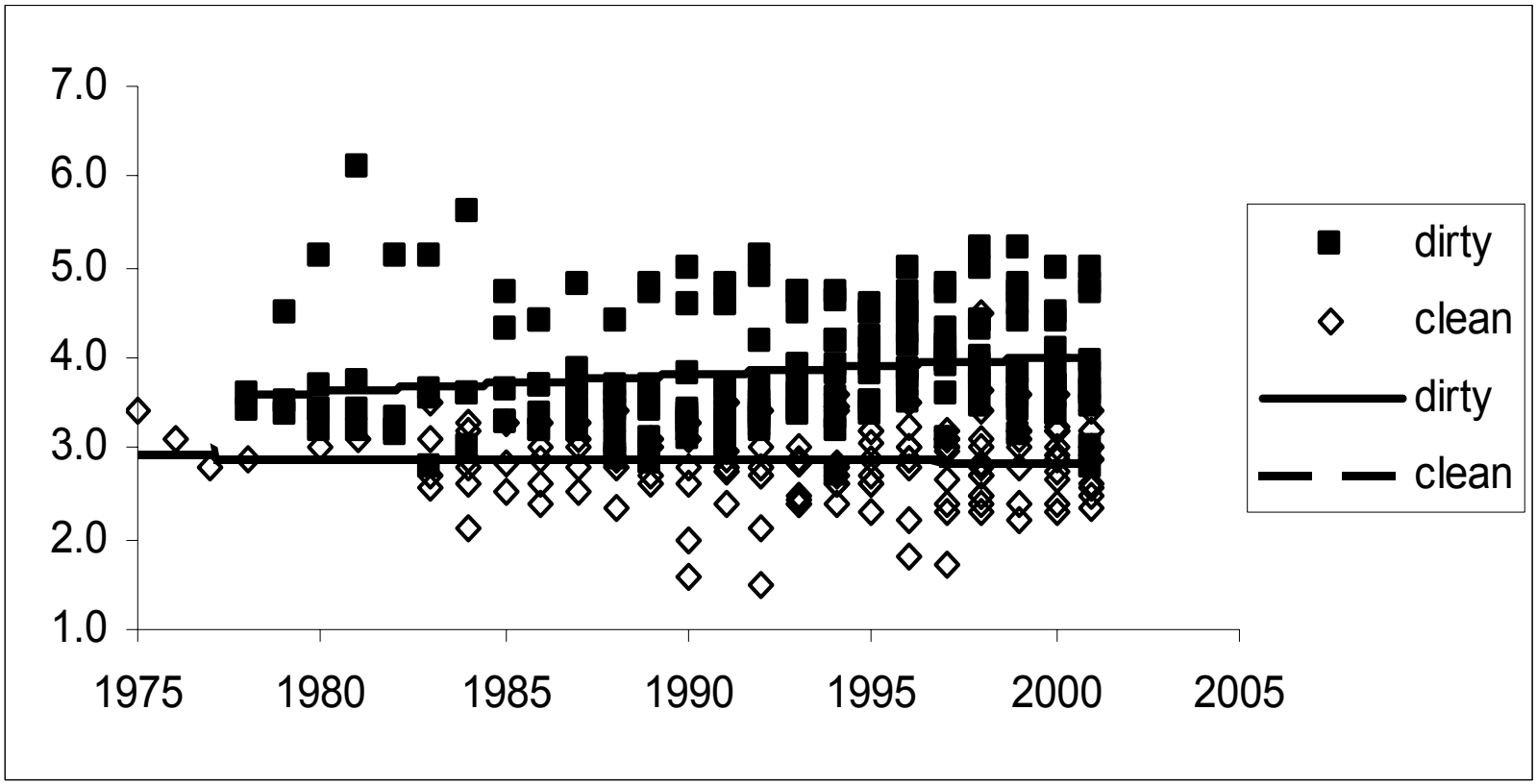
Sponge tissue $\delta^{15}N$ vs. TN



Plexaura homomalla

P. homomalla- skeleton

$\delta^{15}N$ vs. TN



Gorgonian tissue $\delta^{15}N$ vs. Time