

West Hawai'i Aquarium Project: Fishery Management of Marine Protected Areas



WHAP survey status

as of March 2002

West Hawai'i

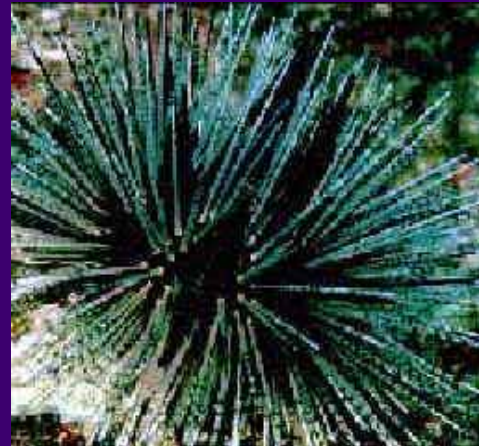
- 23 study sites
- 18 surveys (n= 1656 transects)
 - 6 pre- closure; 12 post-closure
- Fishes
 - 240,578 individuals; 202 species
- Macro-invertebrates
 - 25,203 individuals; 7 species surveyed



Tripneustes gratilla



Heterocentrotus mammillatus



Echinothrix calamaris



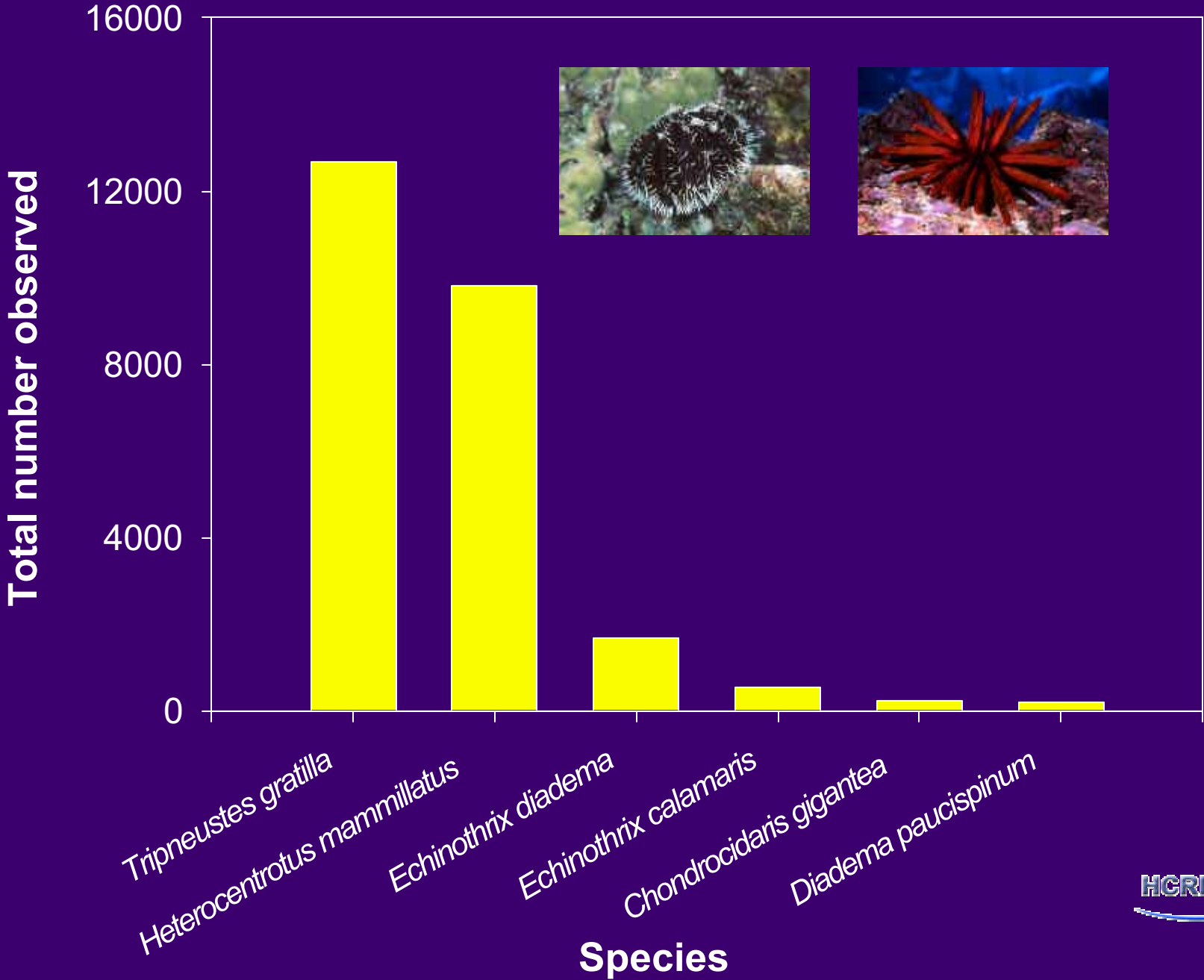
Echinothrix diadema

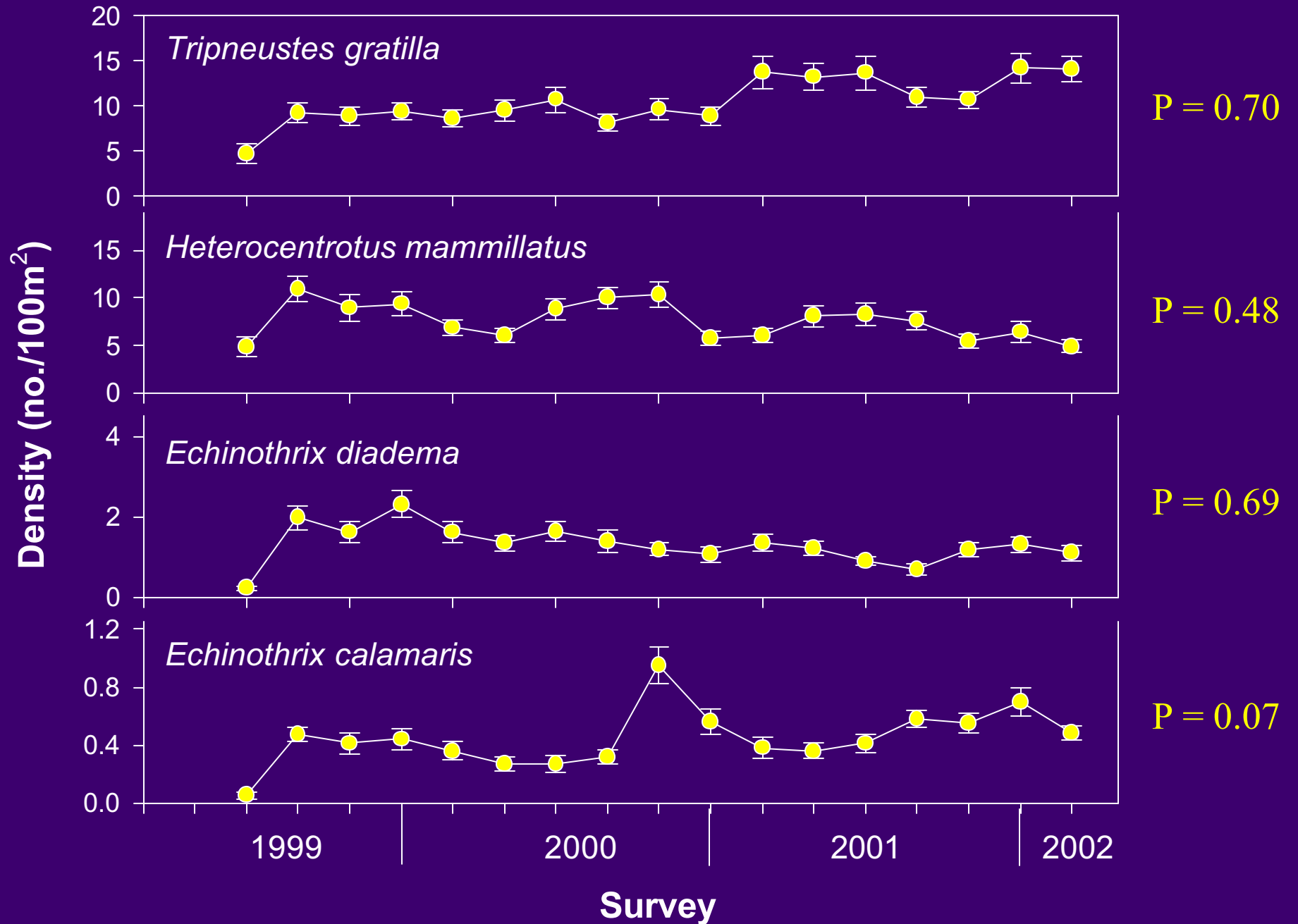


Diadema paucispinum

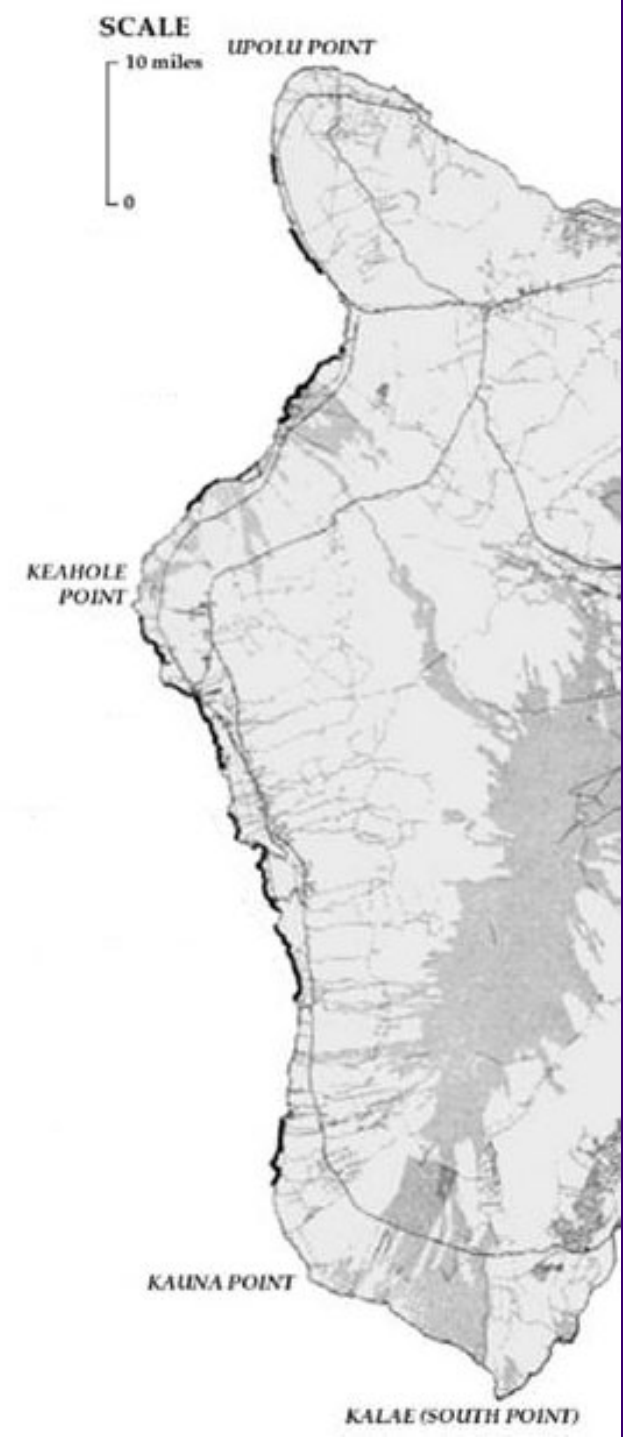
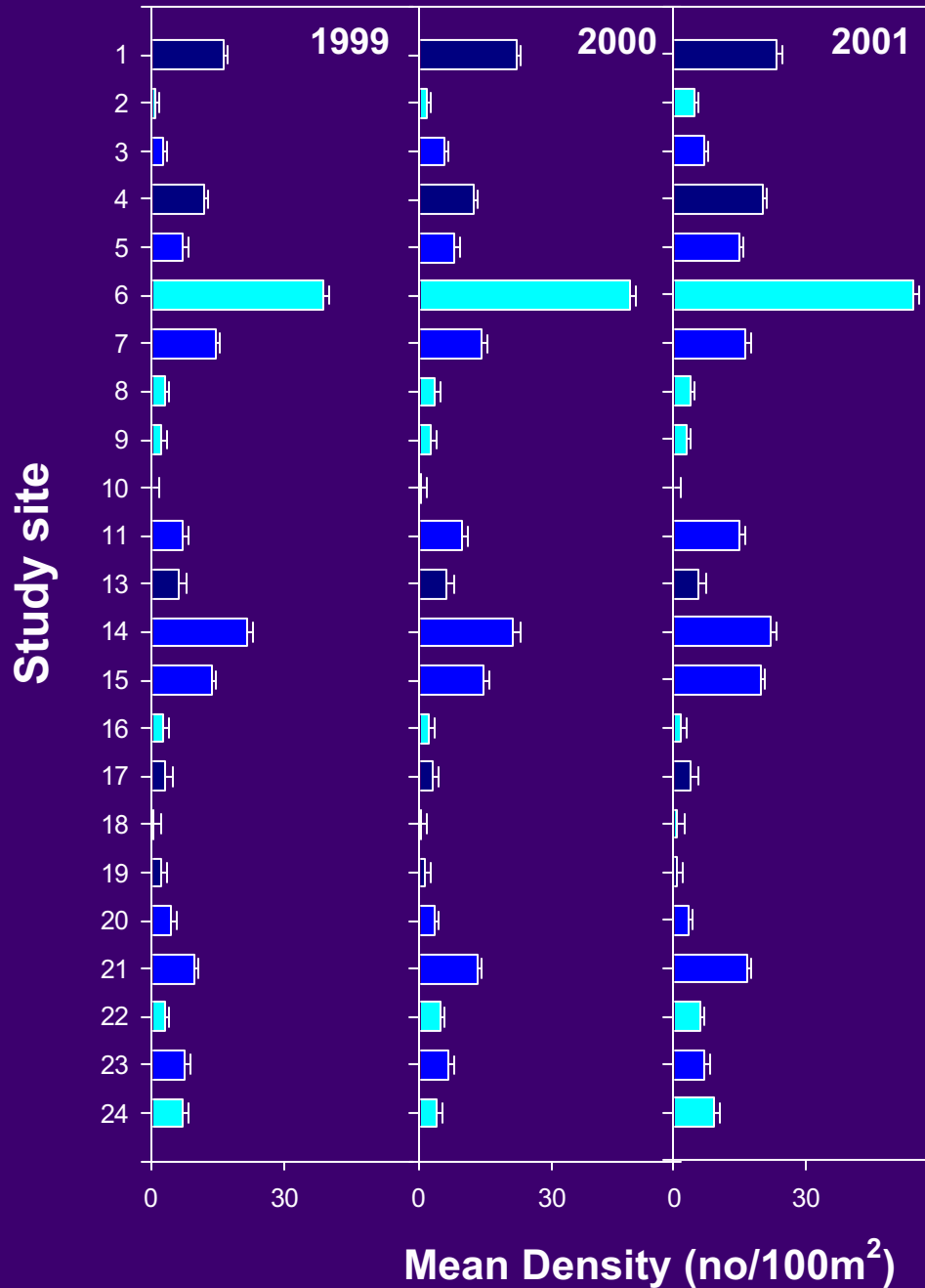


West Hawai'i Urchins

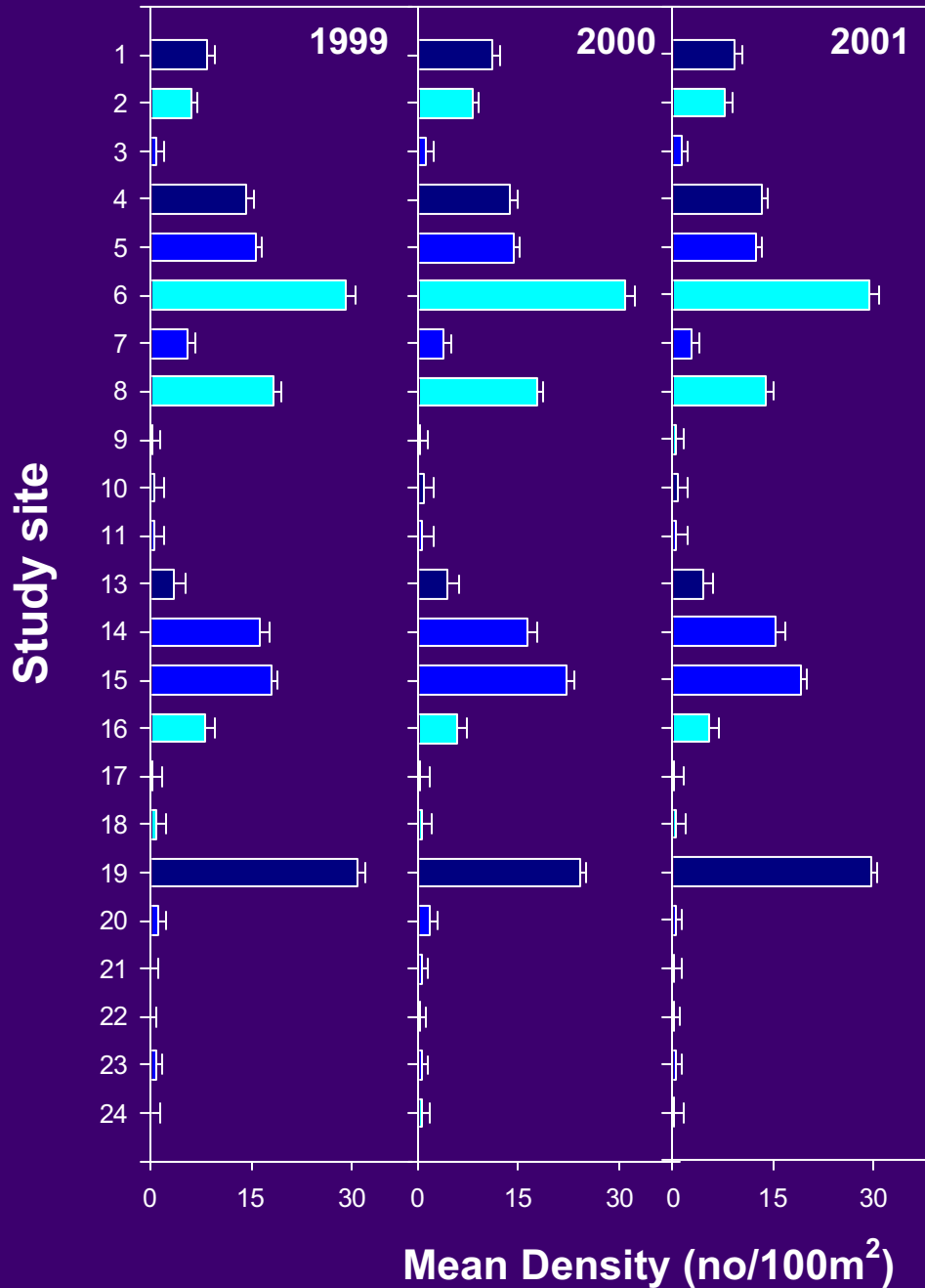




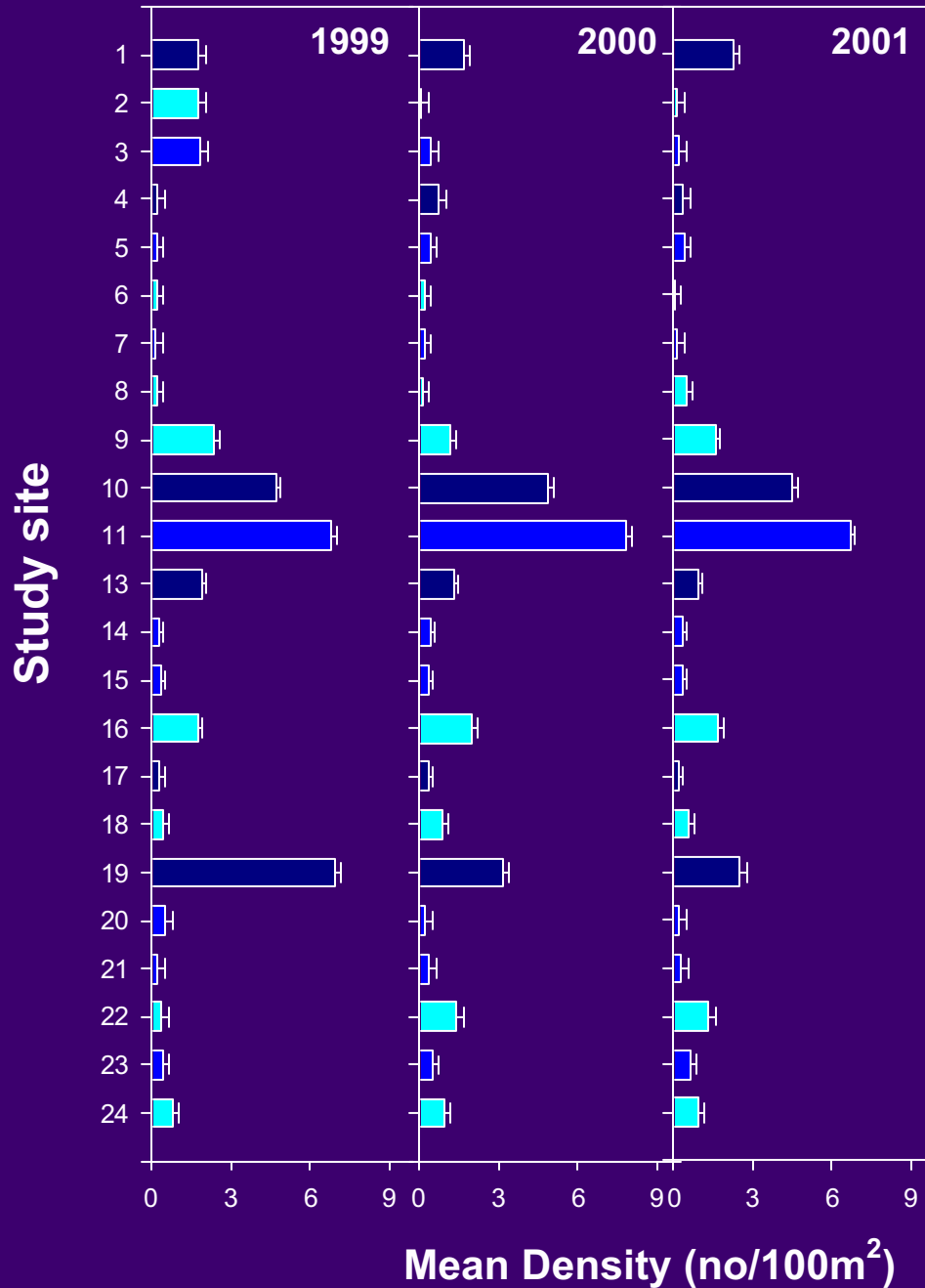
Tripneustes gratilla



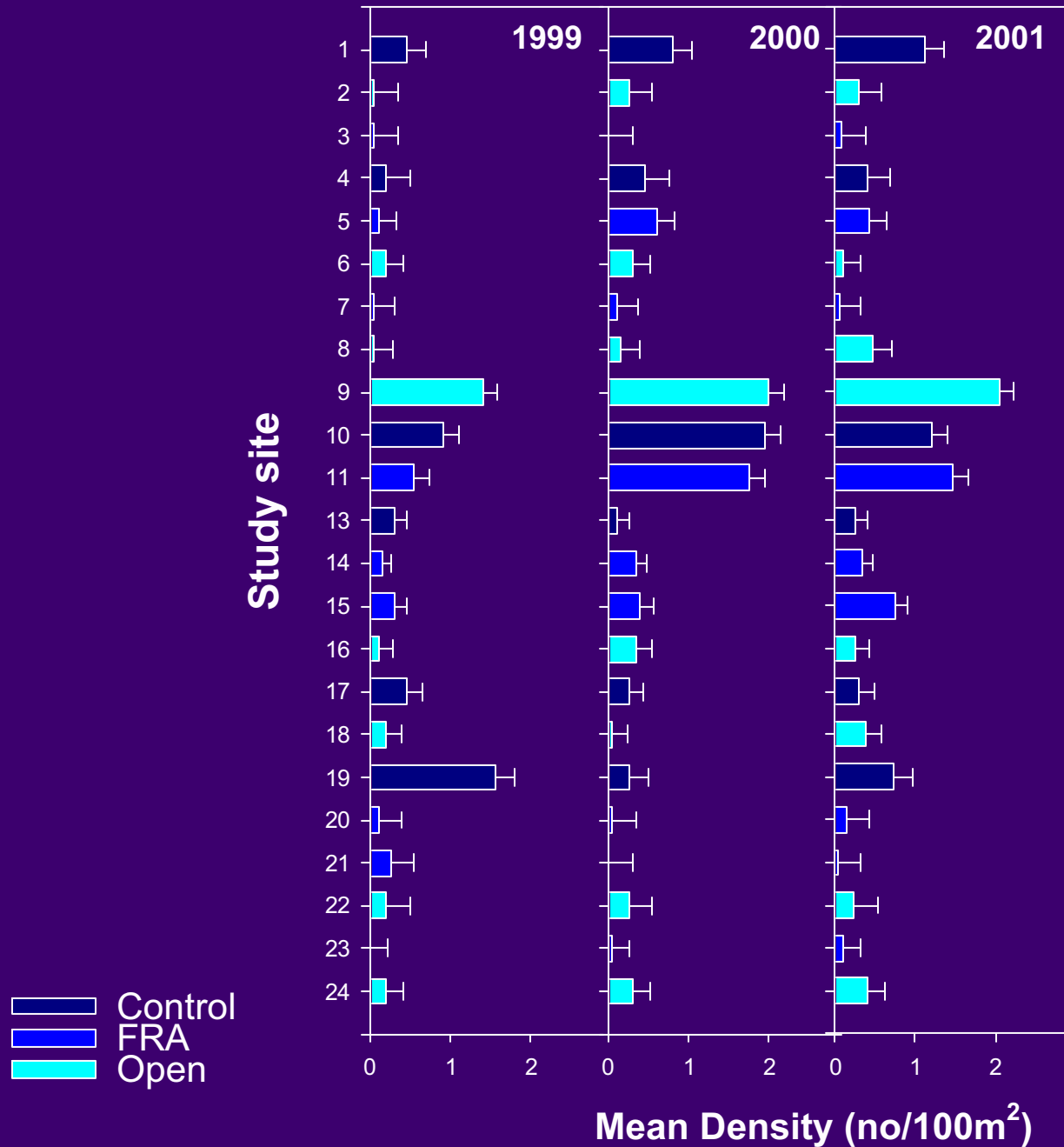
Heterocentrotus mammillatus



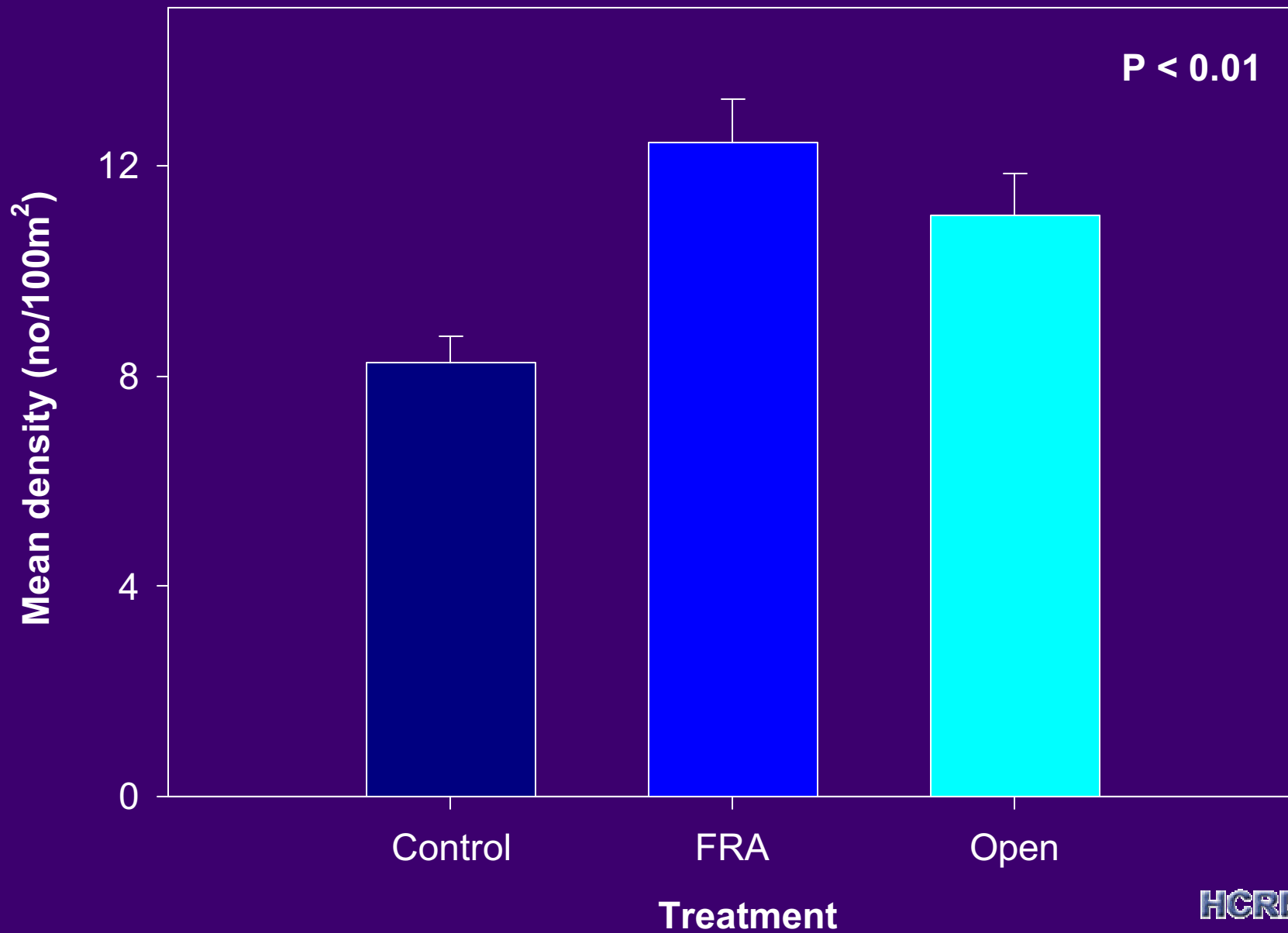
Echinothrix diadema



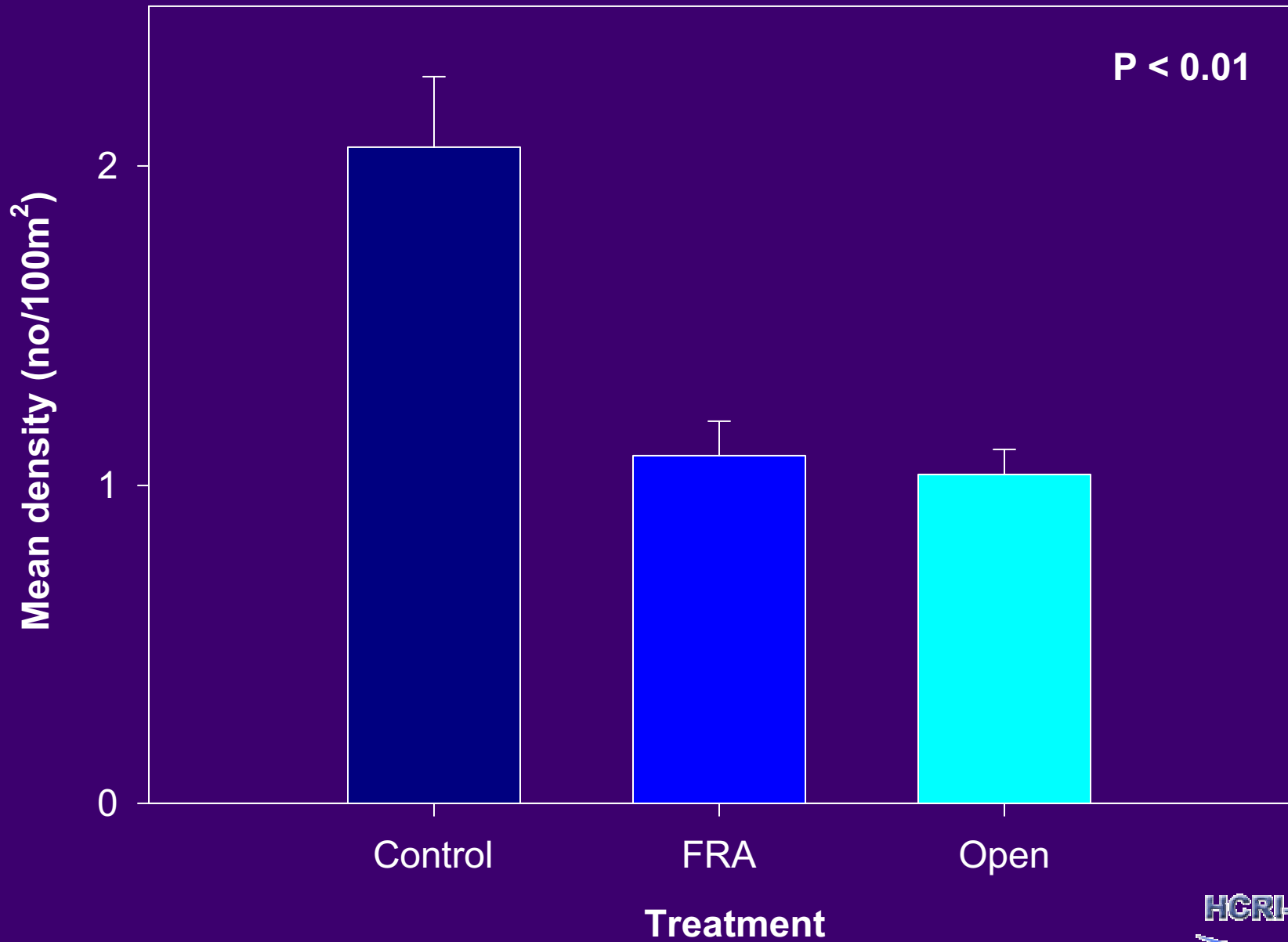
Echinothrix calamaris



Tripneustes gratilla



Echinothrix diadema



Urchins vs. Herbivorous Fishes

