

Success of No-take Reserves

Presentation to Coral Reef Task Force

November 3, 2009

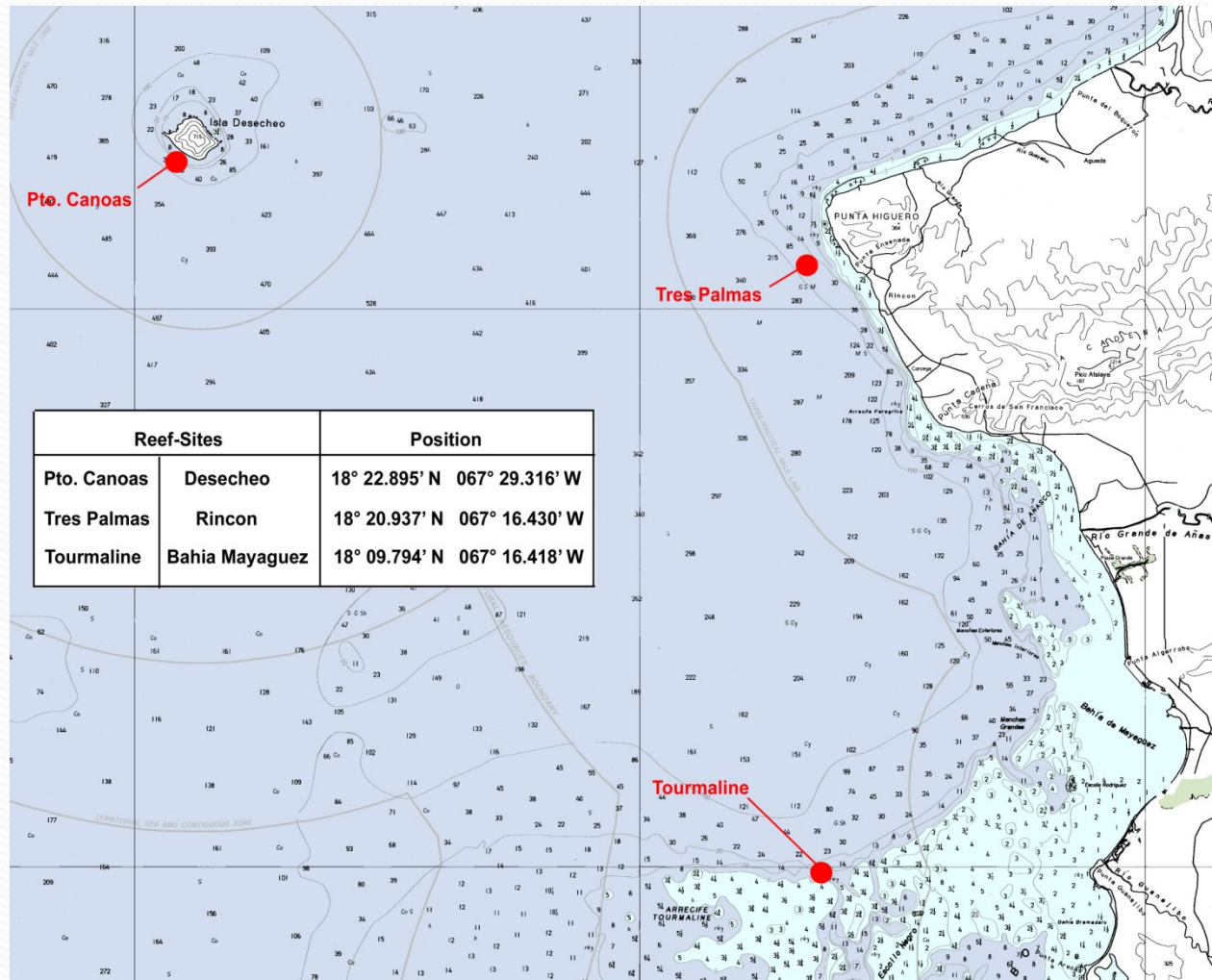
San Juan, Puerto Rico



DNER Coral Reef Monitoring

- Seven natural reserves are monitored every year
- Total of 15 reefs within those reserves
- Two no-take reserves: Tres Palmas in Rincón and Isla de Desecheo
- Demersal and territorial fish populations are surveyed
- Large elusive fish populations are surveyed using Active Search Census (ASEC) techniques

No Take Reserves



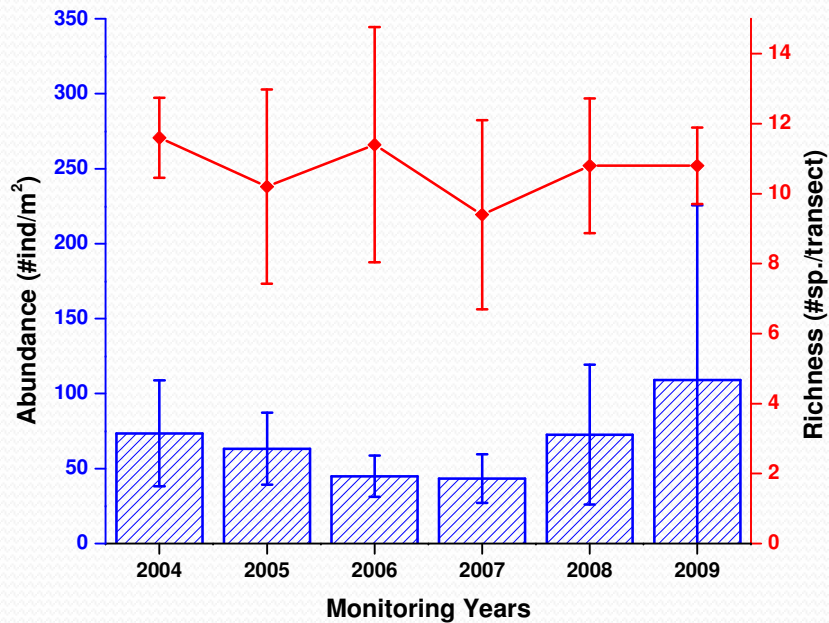
Acropora palmata



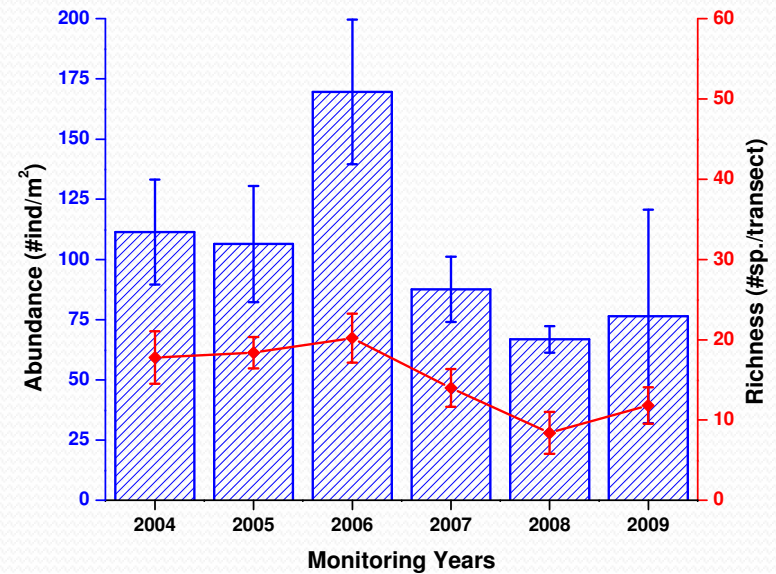
Reported results

Results of species of fish Tres Palmas (2009)			
	2-5 m	10-15 m	20 m
Number sps.	58	113	39
Mean abundance	109.0 Ind/30 m ²	76.4 Ind/30 m ²	267.2 Ind/30 m ²
Mean #	10.8	11.8	22

Fish Abundance & Richness

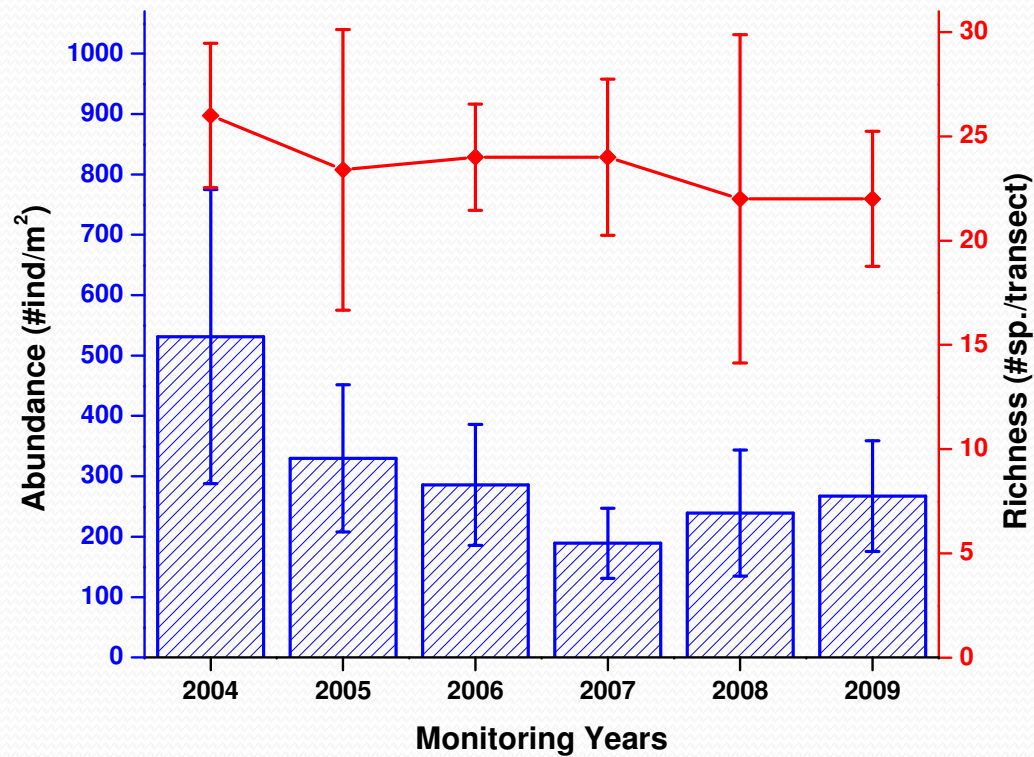


2-5 meter depth



10-15 meter depth

Fish Abundance & Richness

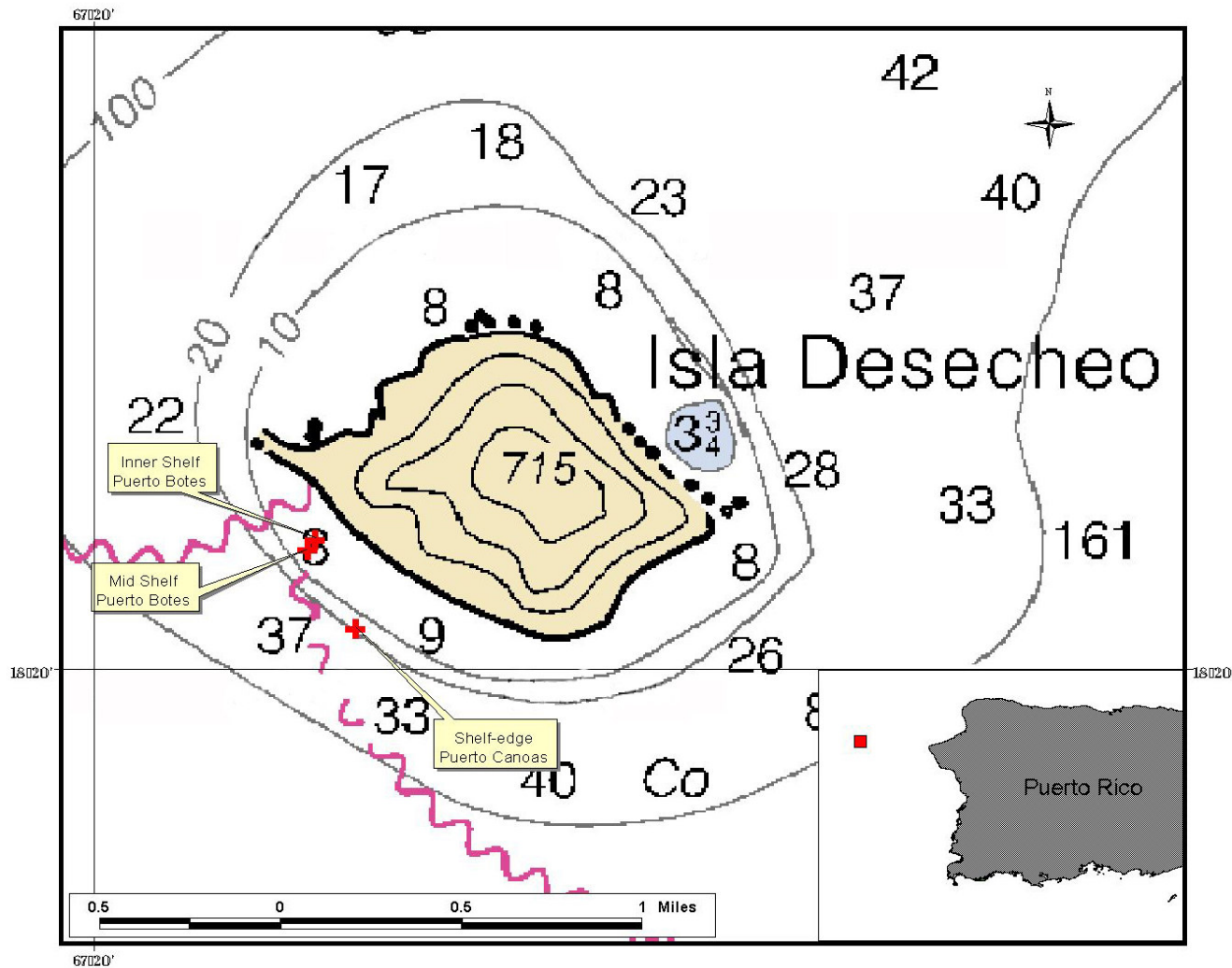


20 meter depth

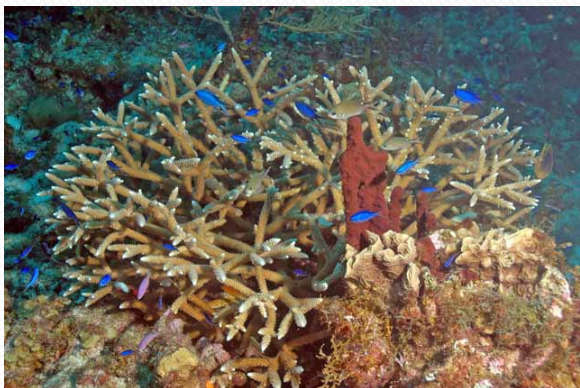
Species of fish monitored at TPR



Desecheo Island Reserve Location



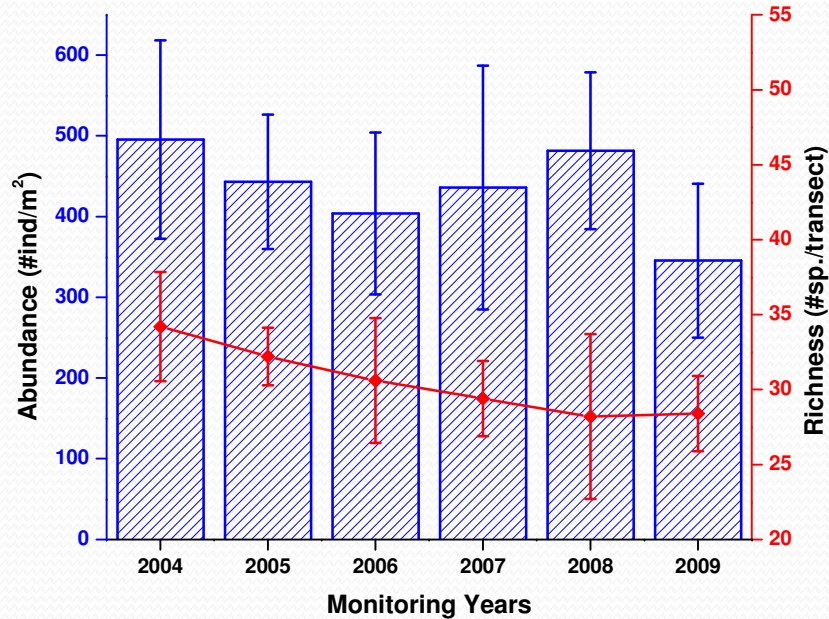
Desecheo Island



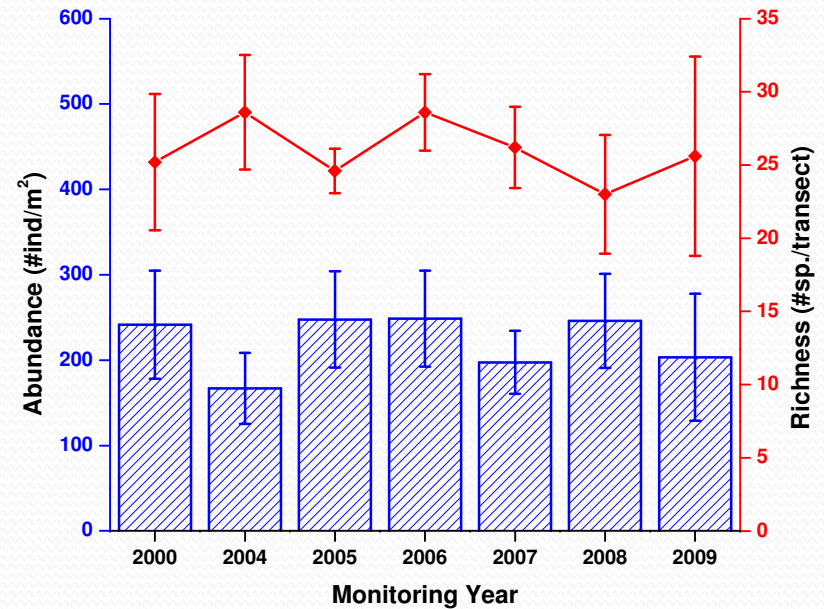
Reported results

Results of species of fish Desecheo Island (2009)			
	2-5 m	10-15 m	20 m
Number sps.	43	45	95
Mean abundance	189.4 Ind/30 m ²	203.4 Ind/30 m ²	345.4 Ind/30 m ²
Mean #	21.4	25.6	28.4

Fish Abundance & Richness

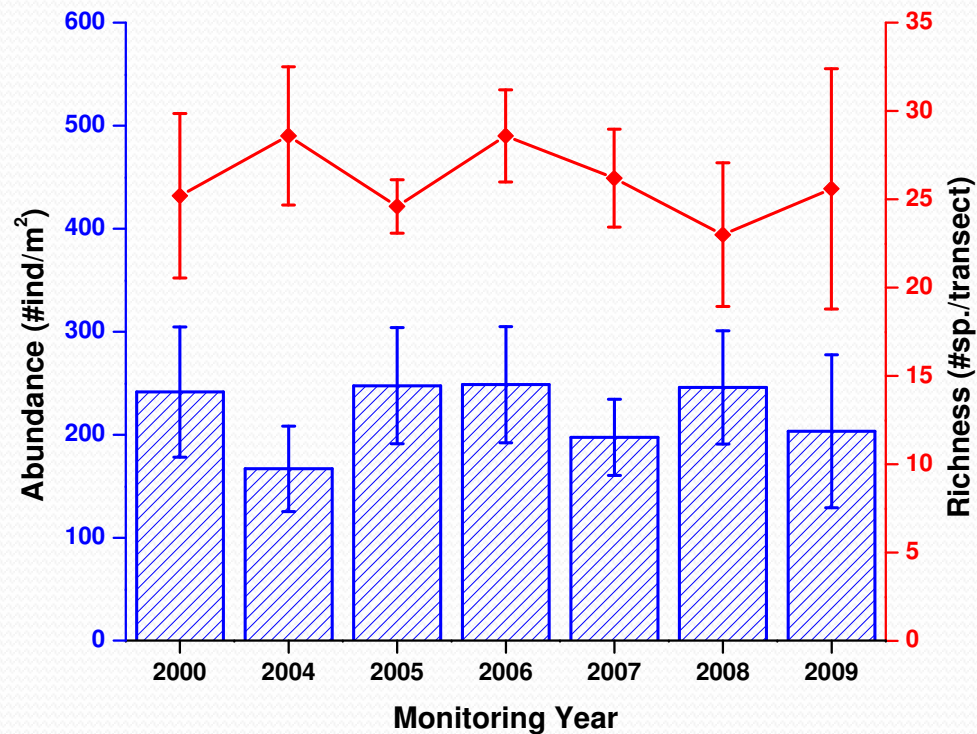


30 meters depth



20 meters depth

Fish Abundance & Richness



15 meters depth

Sampled Sps. Desecheo Island

