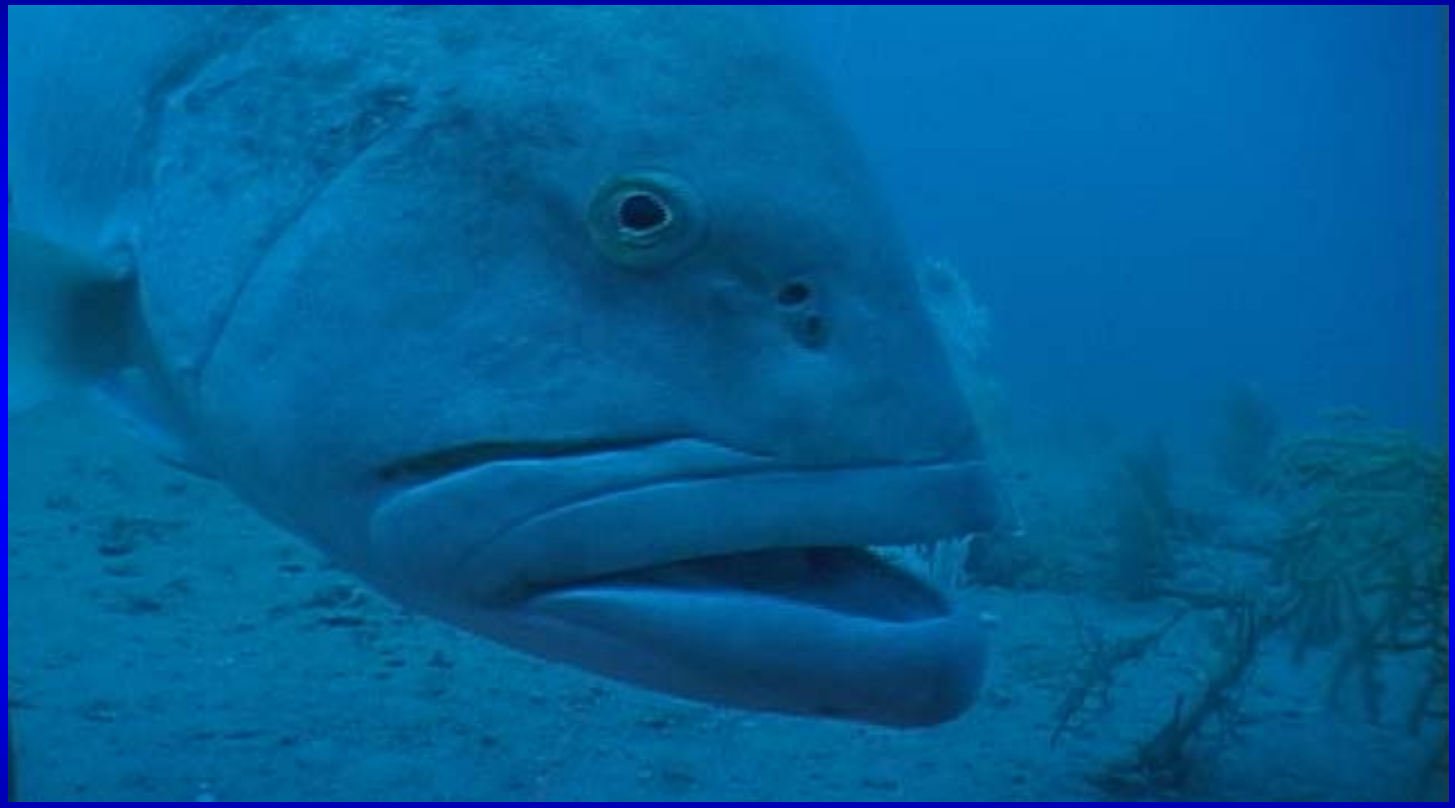
Marine Protected Areas in the Northern Gulf of Mexico

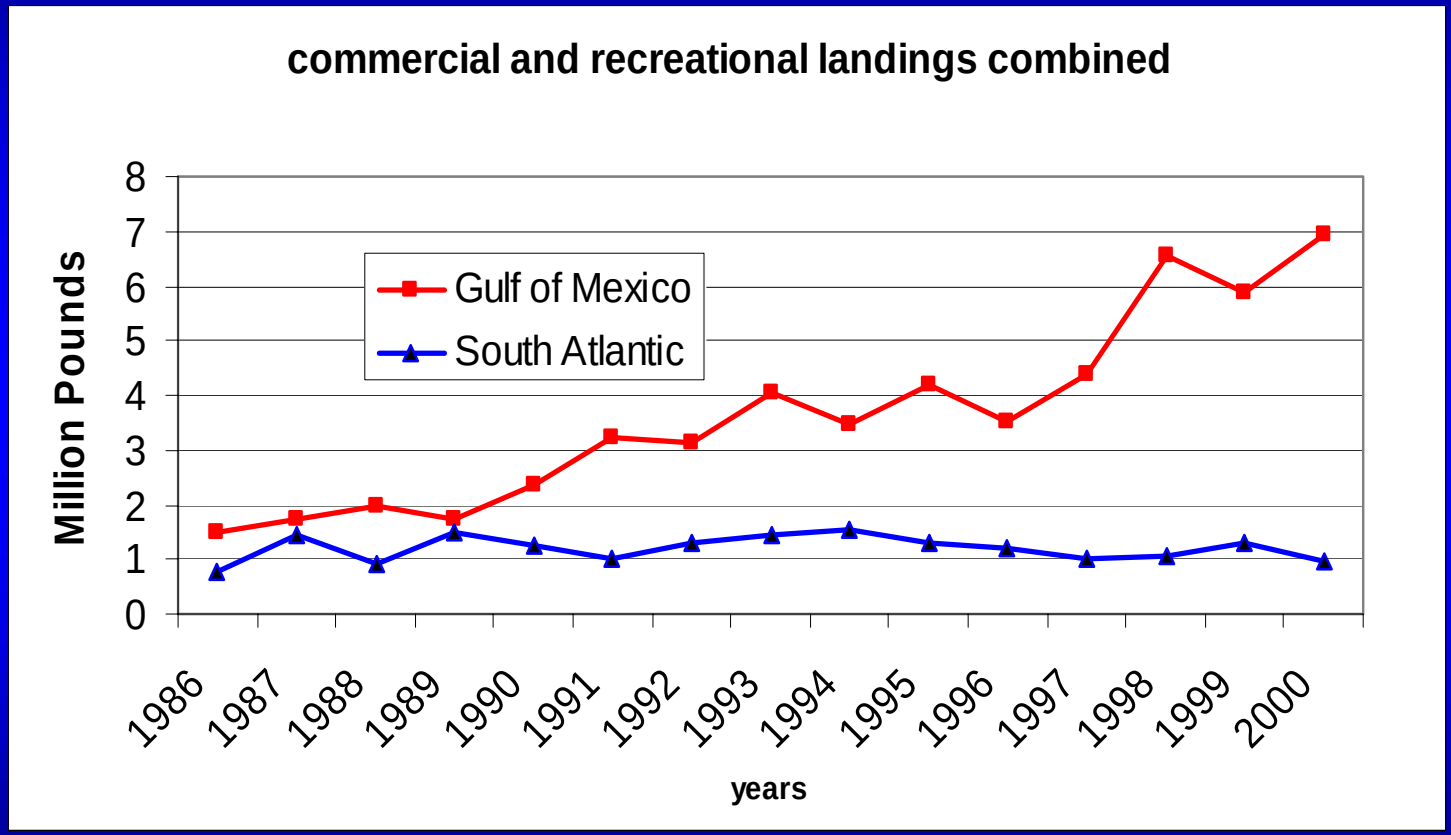


Principal Investigators:

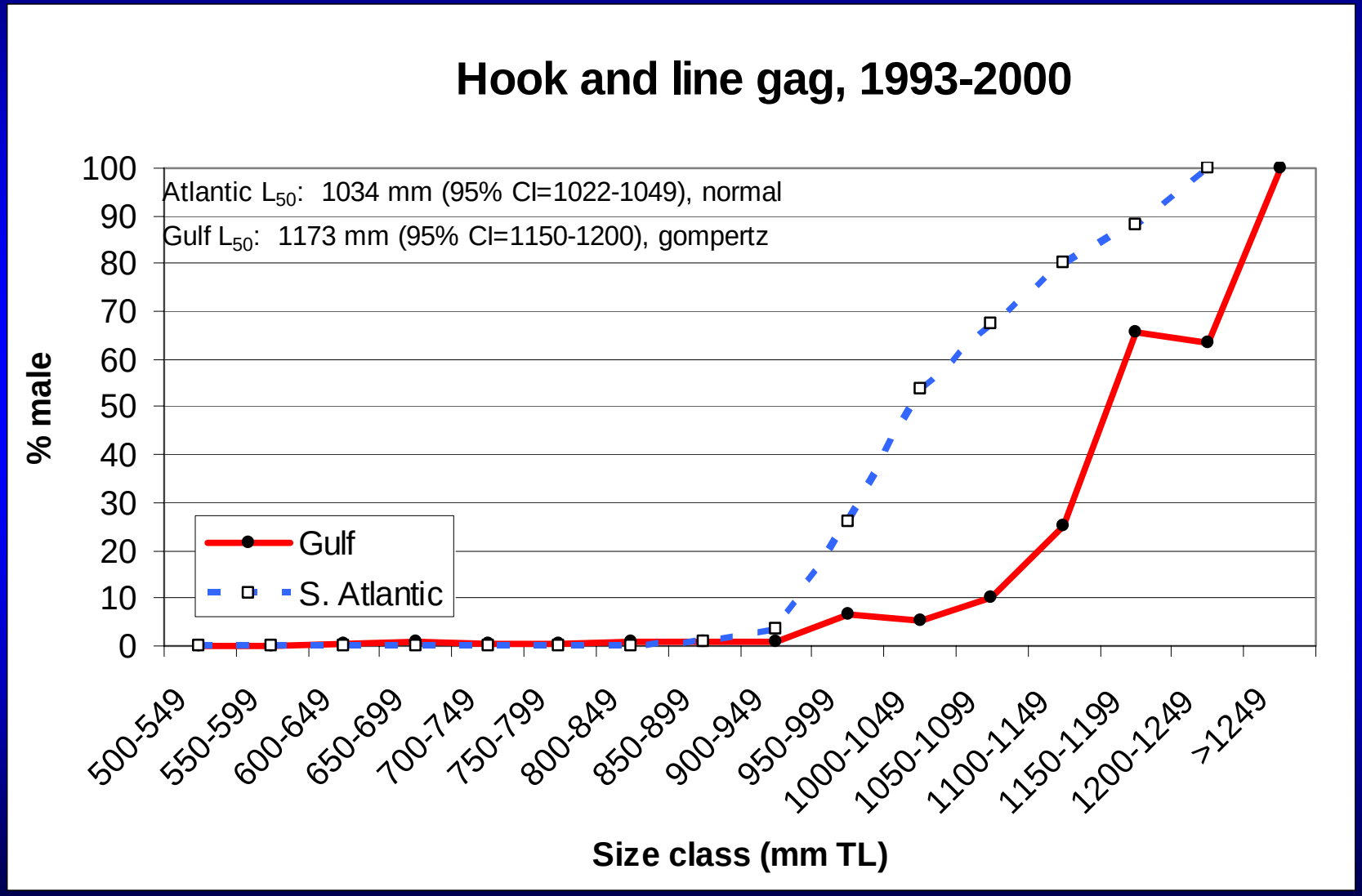
Christopher T. Gledhill
Pascagoula Laboratory

Andrew W. David
Panama City Laboratory

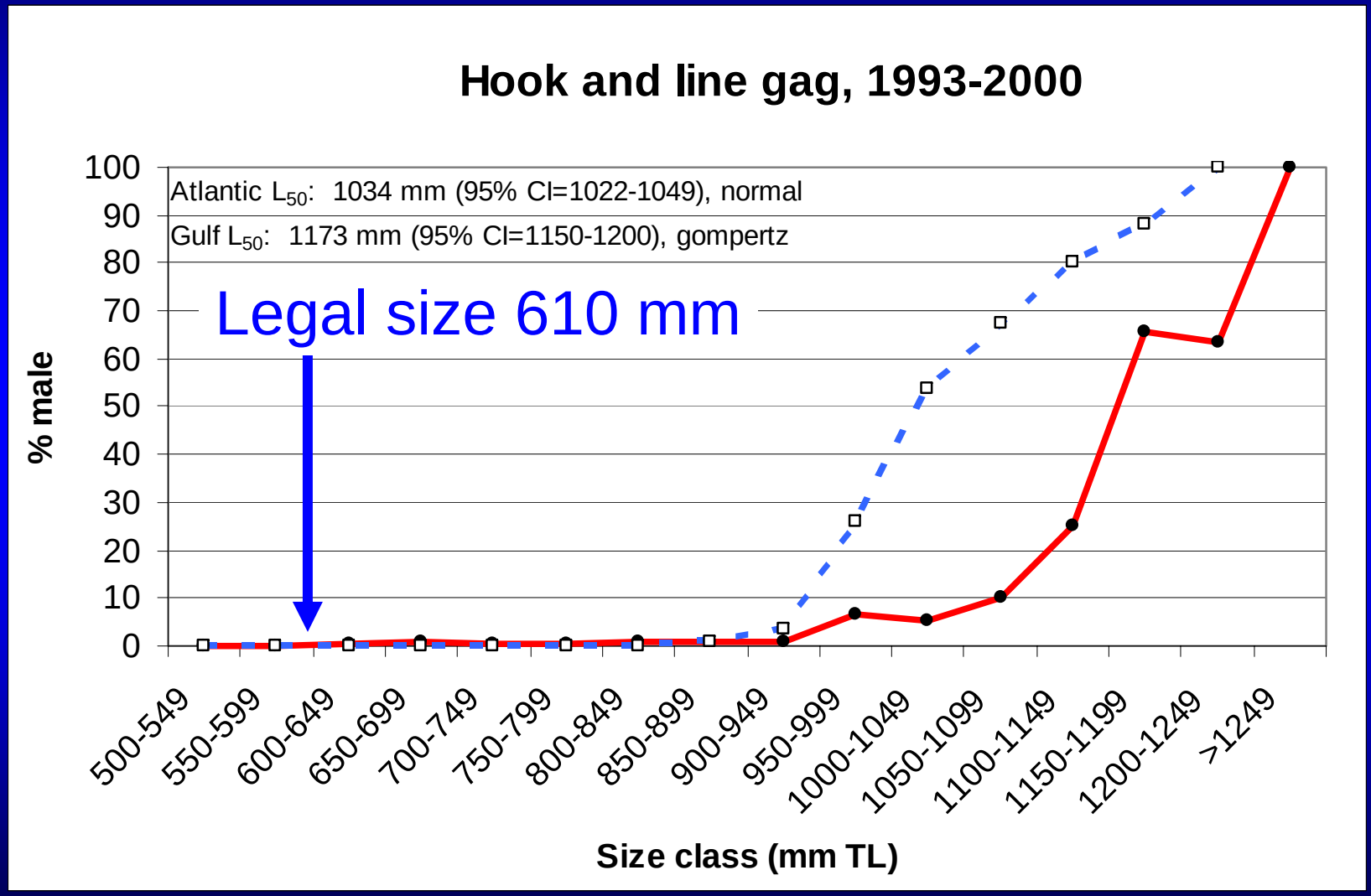
Landings of Gag in Gulf and South Atlantic



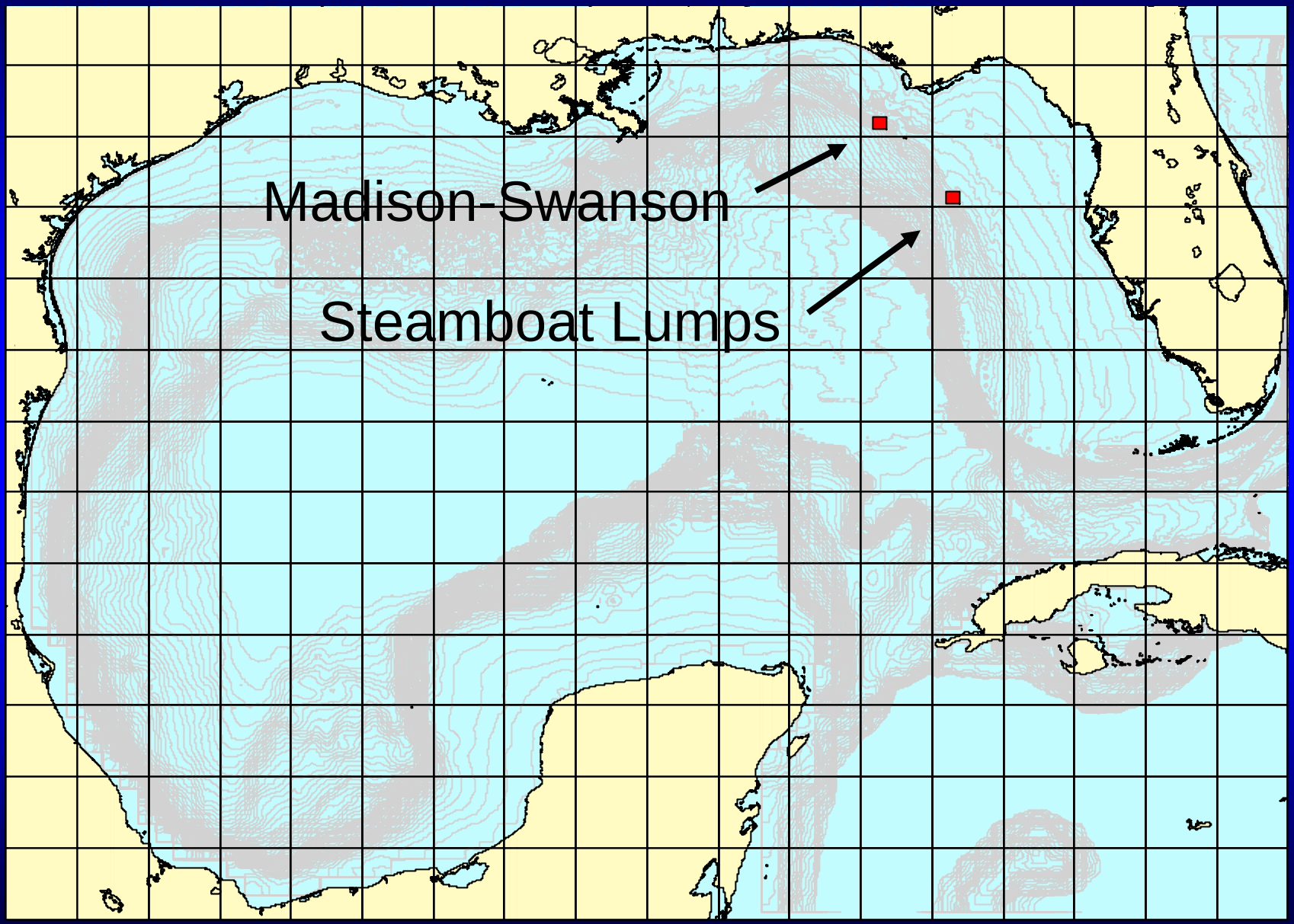
Percent male by length



Percent male by length

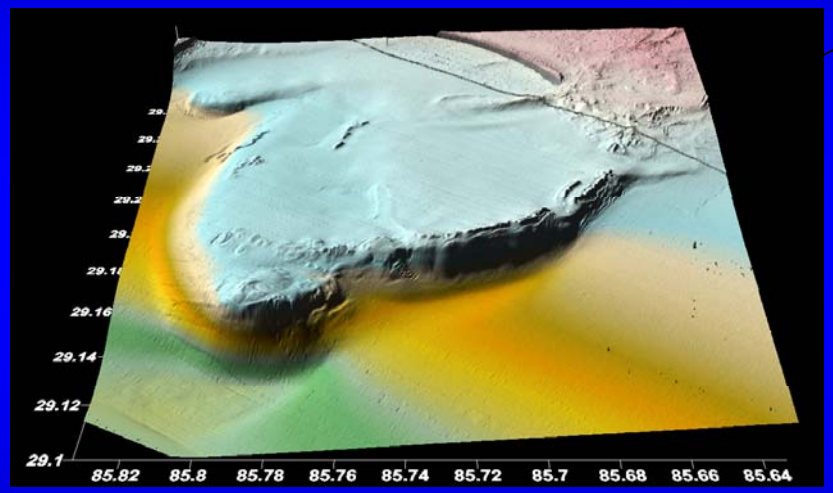


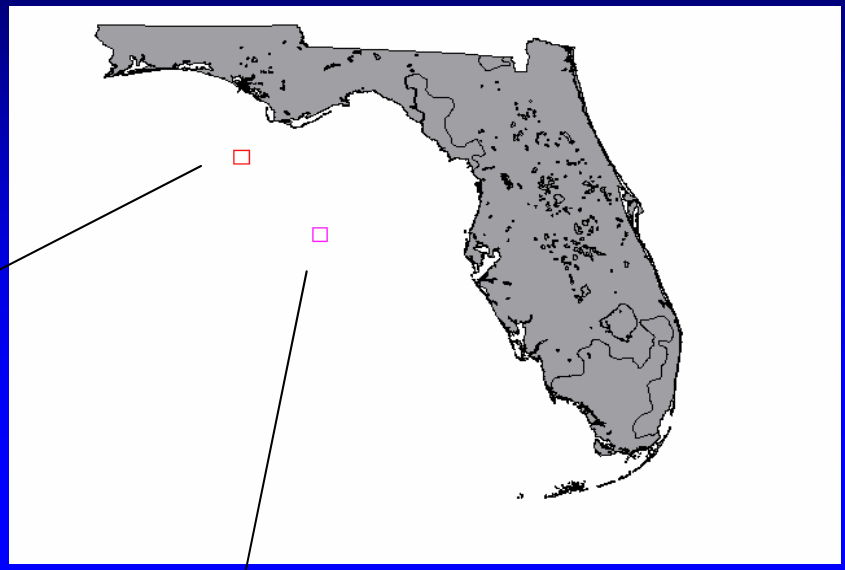
Northeast Gulf Marine Reserves

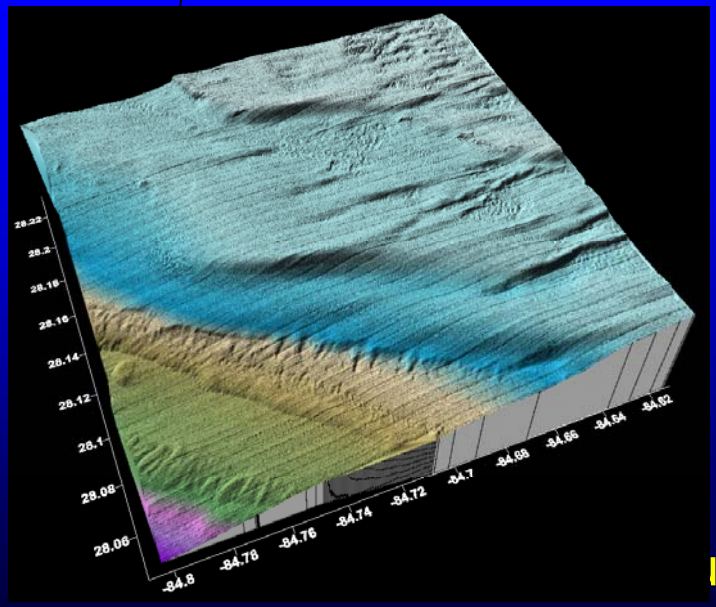


Marine Reserves in the Northeast Gulf of Mexico

Madison-Swanson







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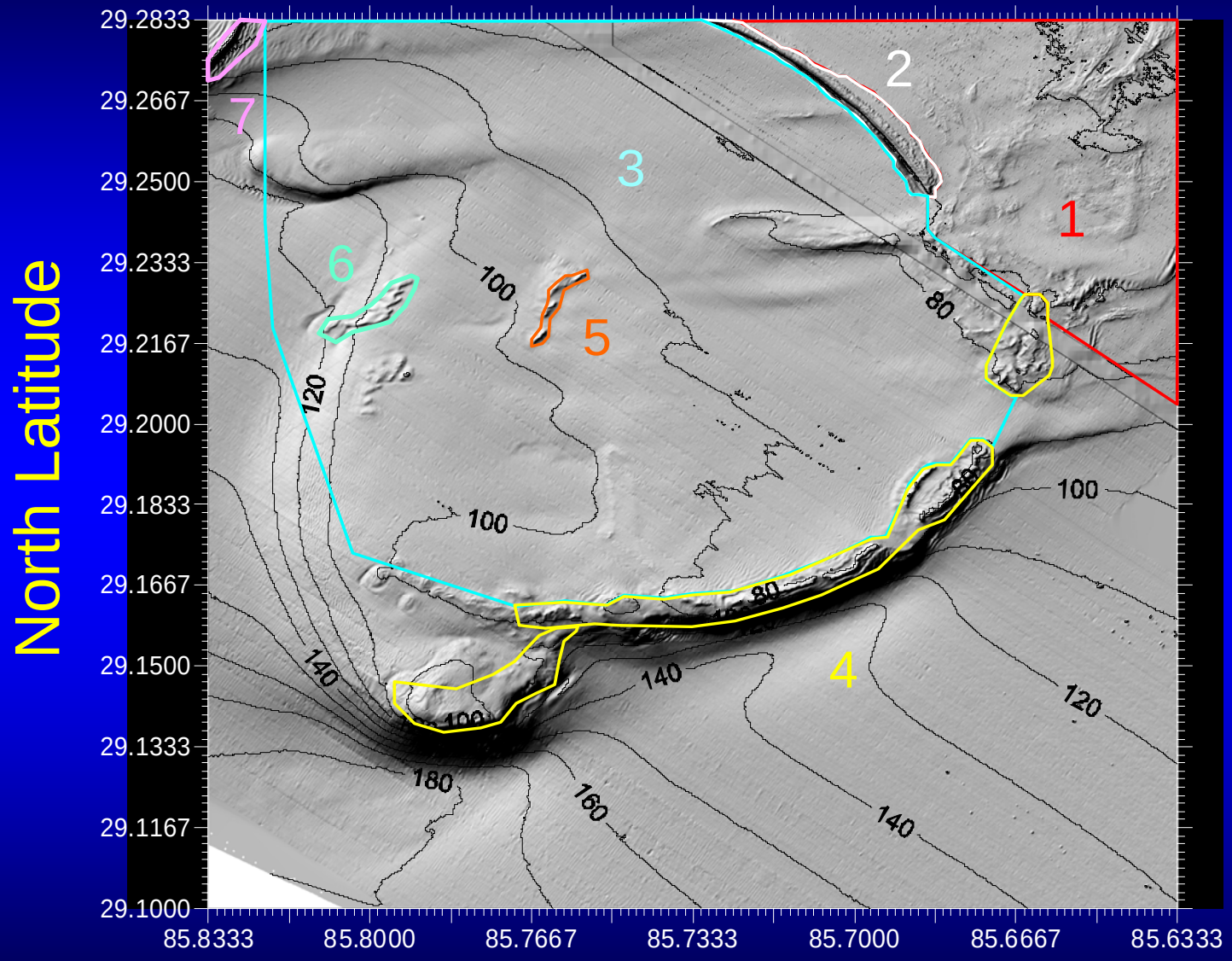
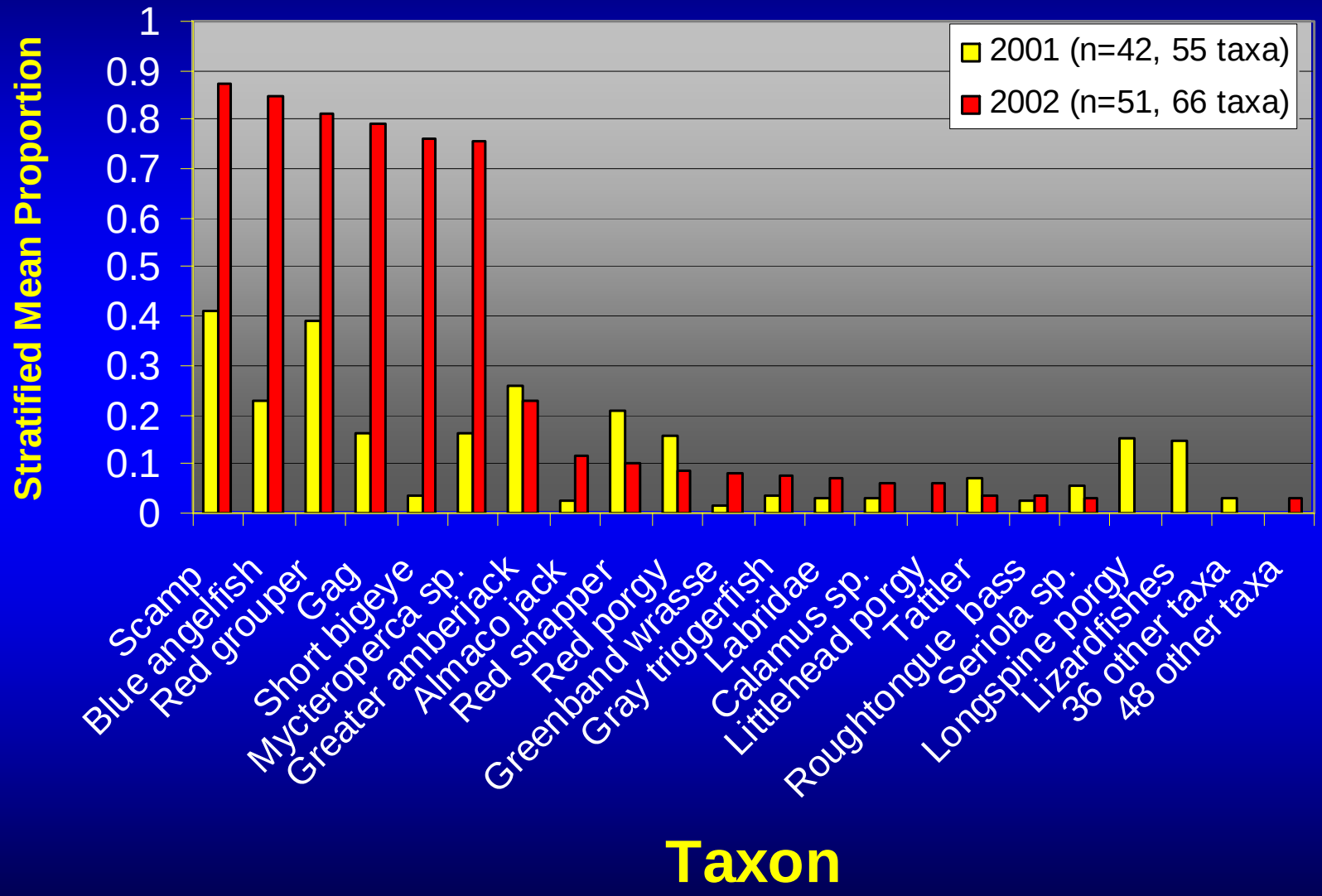
Site Stratification within Madison-Swanson



Madison-Swanson MPA

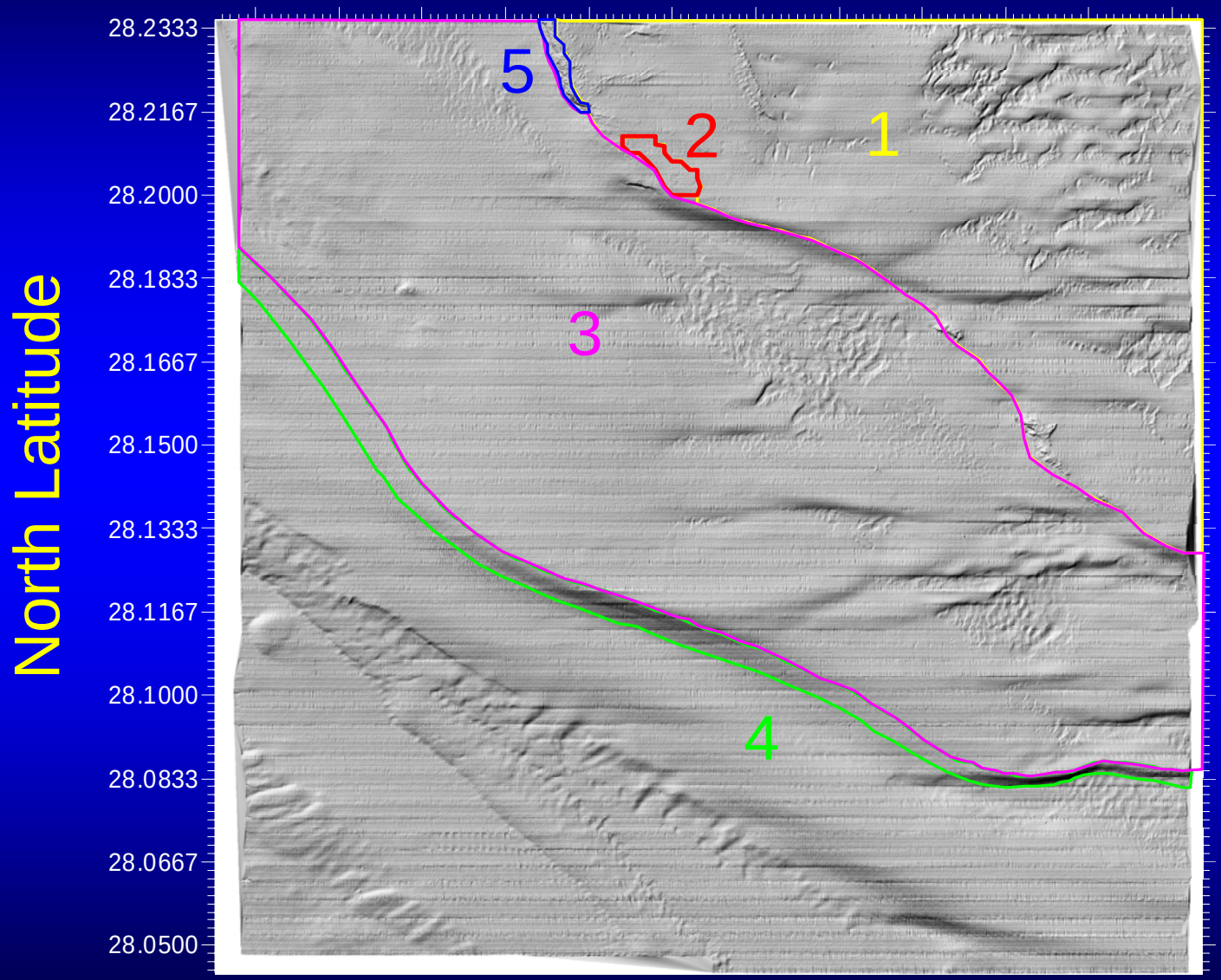


Stratified Mean counts of Groupers and Snappers observed at Madison-Swanson MPA

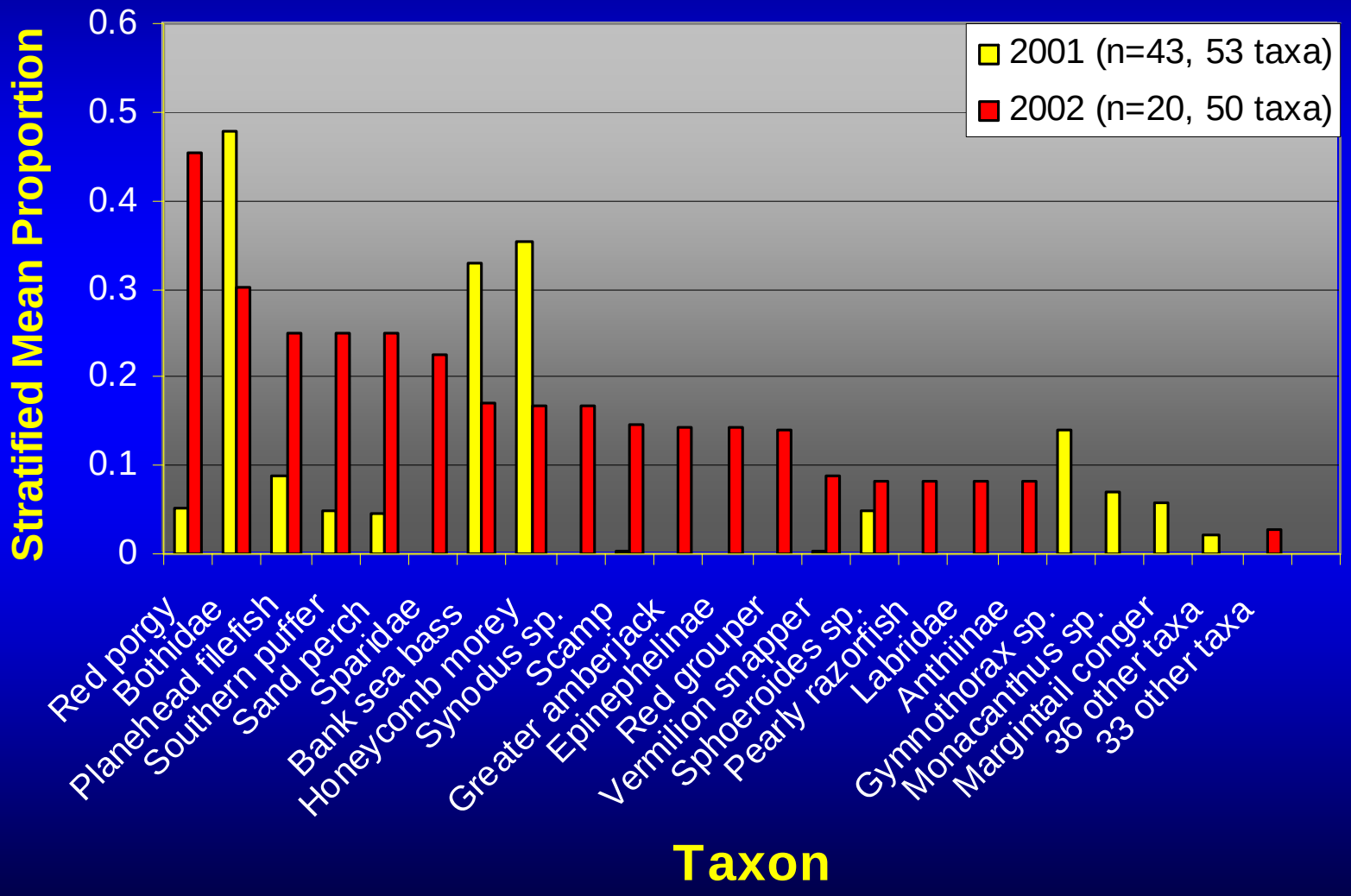
(Strata 1, 2, 3, 4, and 5 only 2001 n=35, 2002 n=51)

	2001		2002	
Taxon	Mean	V_{str}	Mean	V_{str}
Epinephelus sp.	-	-	< 0.01	< 0.01
Snowy Grouper	-	-	< 0.01	< 0.01
Speckled Hind	-	-	0.11	< 0.01
Red Grouper	0.39	0.03	0.80	< 0.01
Mycteroperca sp.	0.31	0.09	0.76	< 0.01
Gag	0.16	0.02	0.82	< 0.01
Scamp	0.97	0.34	3.27	< 0.01
Red Snapper	1.02	0.71	0.24	0.02
Vermilion Snapper	0.04	< 0.01	0.17	< 0.01
Red Porgy	1.01	0.07	1.52	2.02

Site Stratification within Steamboat Lumps MPA



Steamboat Lumps MPA

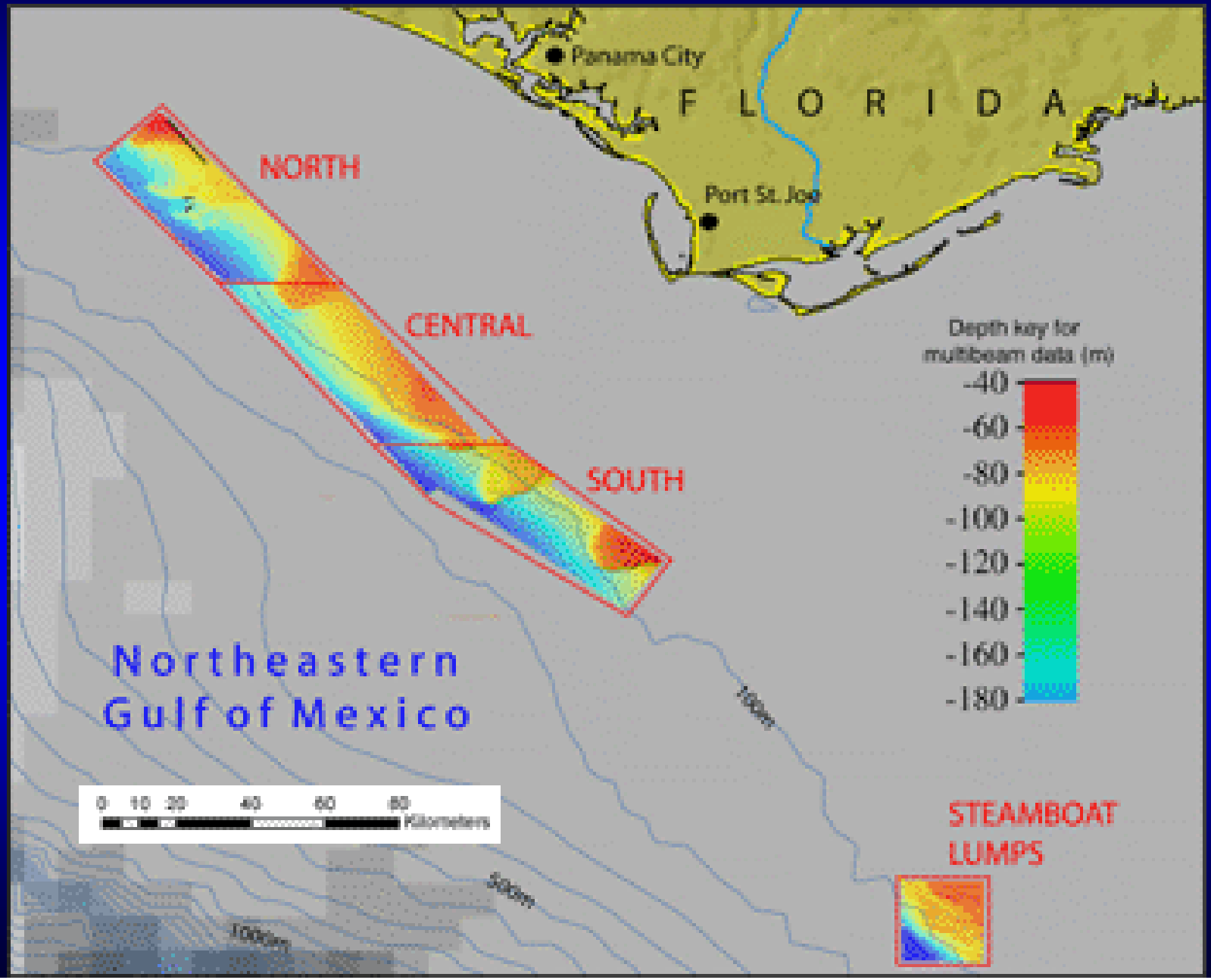
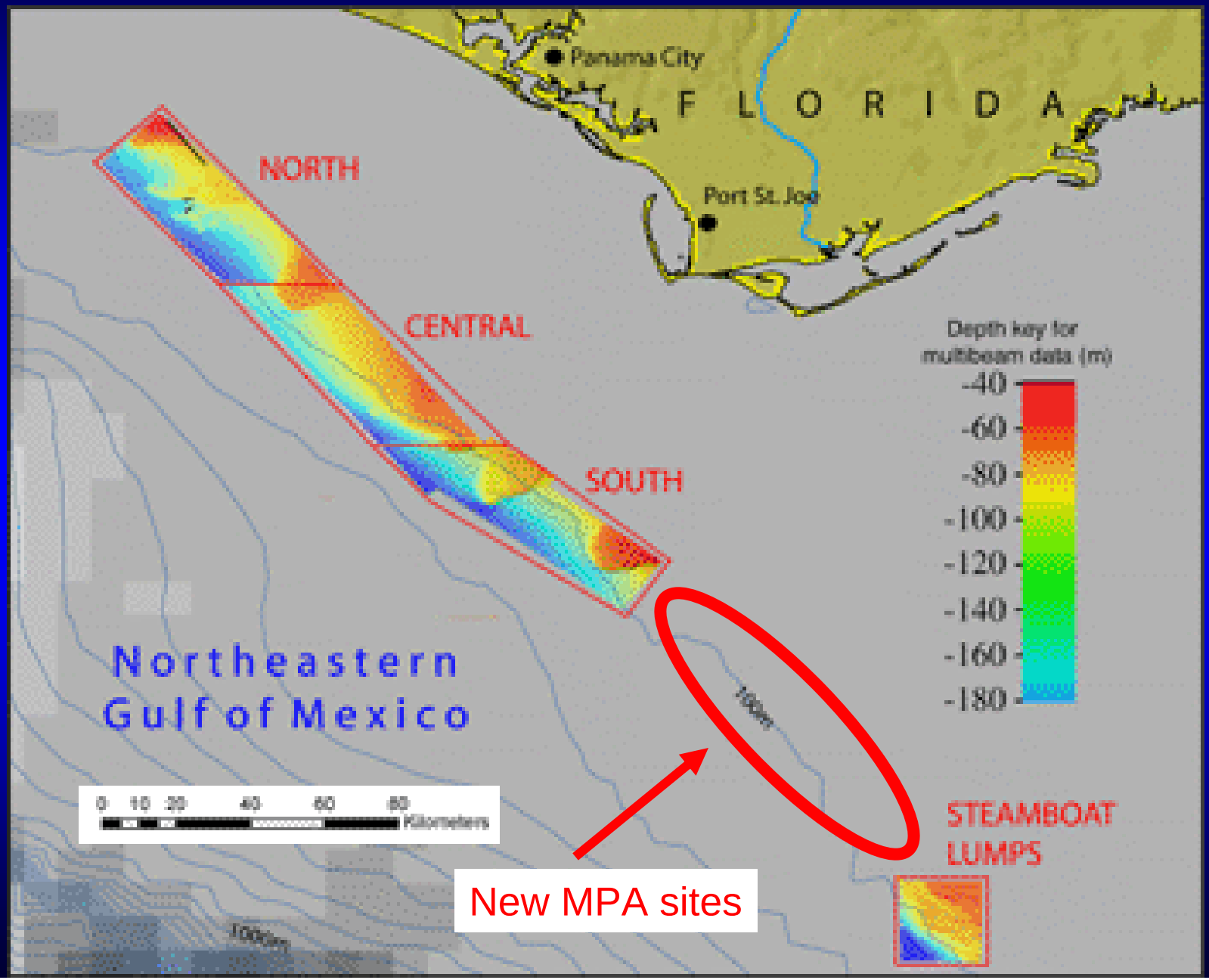


Stratified Mean counts of Groupers and Snappers observed at Steamboat Lumps MPA

2001 n=43, 2002 n=20

Taxon	2001 Mean	2001 V_{str}	2002 Mean	2002 V_{str}
Epinephelus sp.	0.01	< 0.01	-	-
Red Grouper	< 0.01	< 0.01	0.11	0.01
Mycteroperca sp.	0.04	< 0.01	< 0.01	< 0.01
Gag	< 0.01	< 0.01	< 0.01	< 0.01
Scamp	0.01	< 0.01	0.76	0.55
Red Snapper	< 0.01	< 0.01	-	-
Vermilion Snapper	0.13	< 0.01	0.04	< 0.01
Red Porgy	0.35	0.04	1.30	0.82

Existing Multibeam Coverage in NE Gulf of Mexico



Location of proposed new MPA sites