DIEL AND DEPTH VARIATION IN POPULATION DENSITIES OF COMMERCIALLY IMPORTANT CARNIVOROUS FISHES

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Purpose: Investigate population densities of commercially important carnivorous fishes along the walls of the Salt River Canyon. Examine variations in densities over depth and time of day.

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Accomplishments: Thirty-seven species of fishes were recorded from eleven families. Each of the following families contributed more than 10 percent of the total number of fishes recorded for each wall (east = 275, west = 540):

Lutjanidae (snappers), Serranidae (groupers), Pomadasyidae (grunts), Mullidae (goat fishes), and Carangidae (jacks).

For total number of fishes, there appeared to be no statistically significant differences over time or depth or between most of the transect areas. Bottom type seemed to be the most important factor influencing numbers of fishes.