



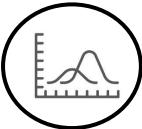
James Gelsleichter, Ph.D. University of North Florida







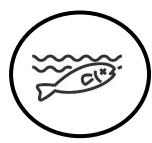
RESEARCH AREAS



Population Ecology



Reproduction



Ecotoxicology

The goal of the study is to characterize species composition and trends in shark populations in the GTM Estuary (2010-)





The UNF shark survey examines shark populations throughout the First Coast

The UNF shark survey is part of the COASTSPAN Program

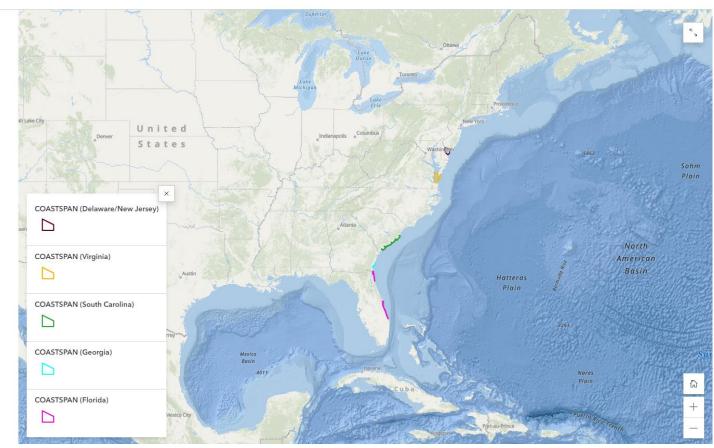


Cooperative Atlantic States Shark Pupping and Nursery Surveys

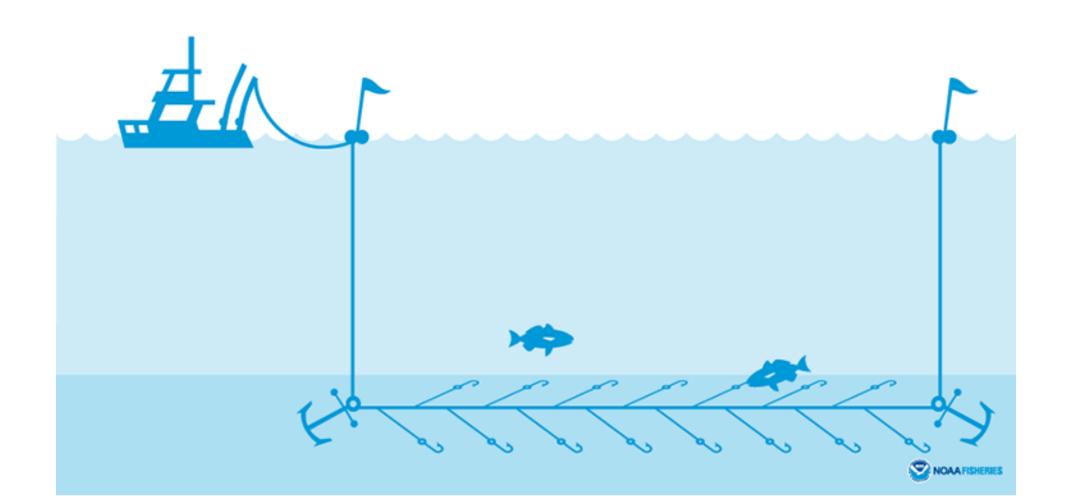
The COASTSPAN Program surveys and monitors shark nursery habitats in estuarine and nearshore waters along the East Coast.

NOAA Fisheries' Northeast Fisheries Science
Center manages the five annual surveys conducted from Delaware to Florida by federal agencies, state agencies, and universities.

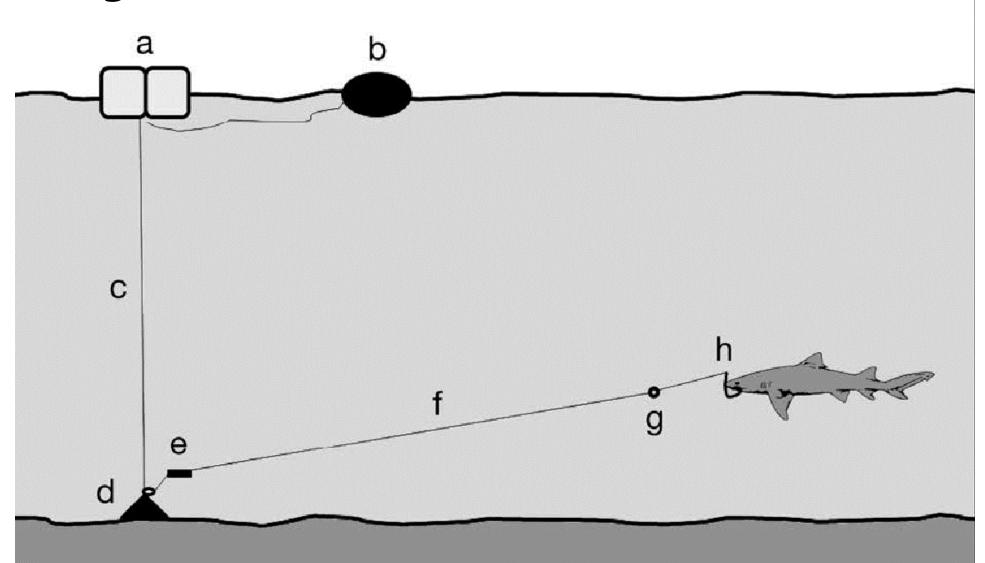
The goals of this program are to identify shark nursery habitat and determine and monitor species composition, habitat use, abundance, and distribution of sharks while they are present in these critical habitats. The five COASTSPAN surveys are described below.



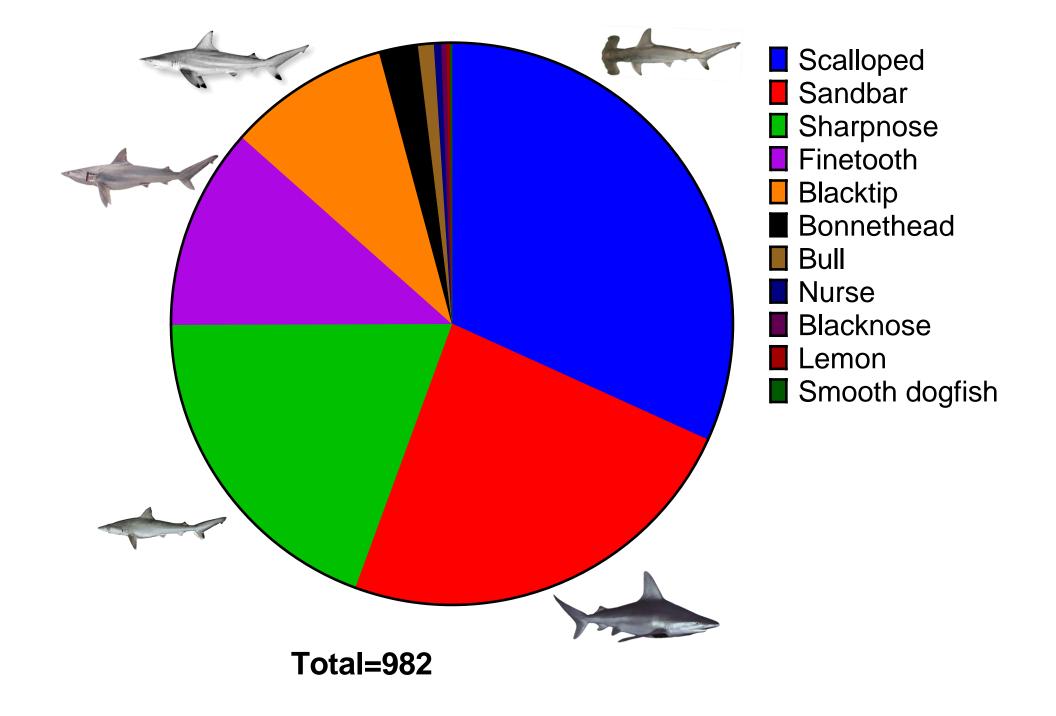
Sharks are surveyed using a fisheryindependent, bottom longline fishing

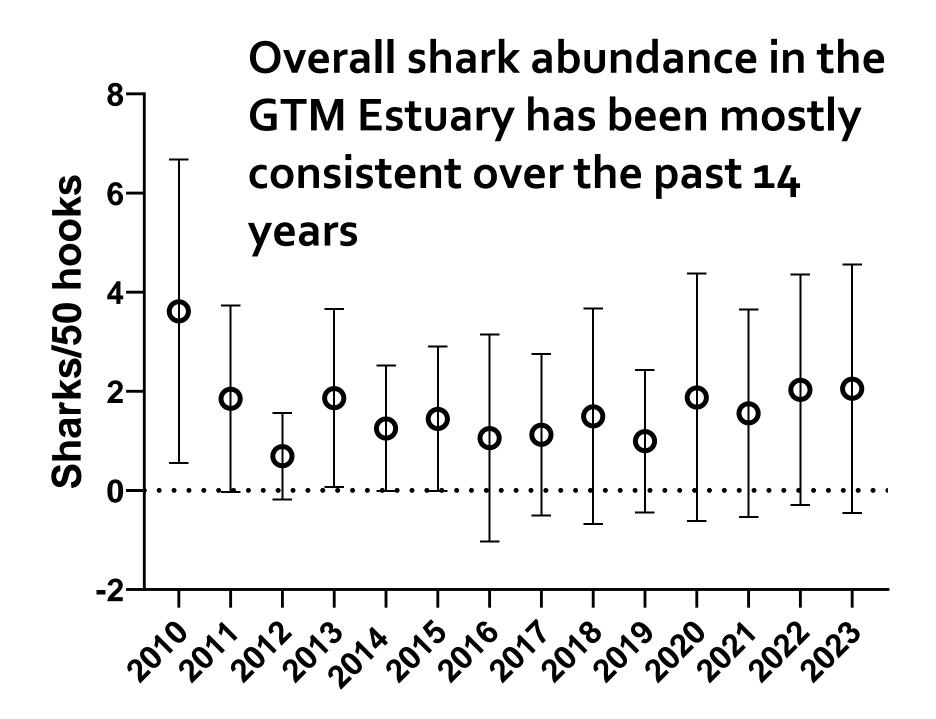


Drumline fishing is also used to target larger sharks

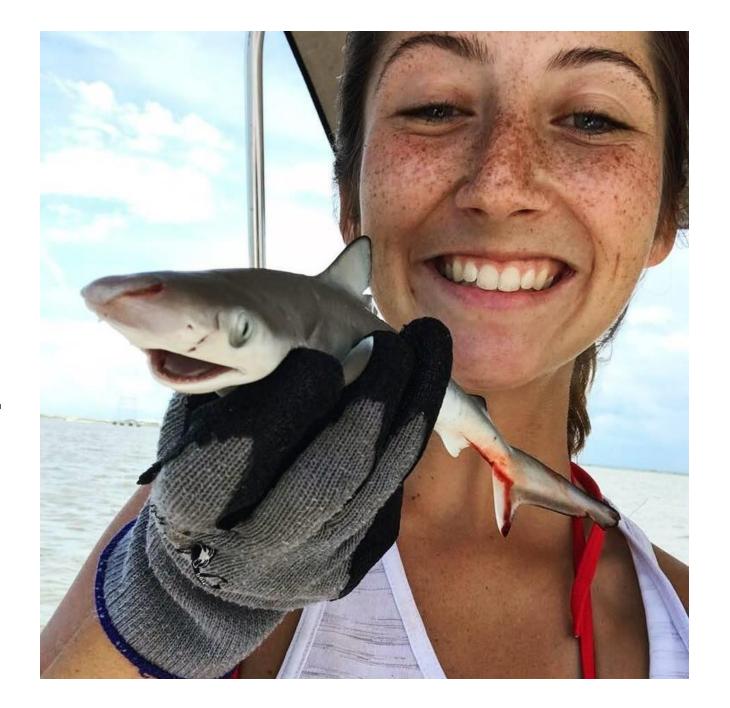








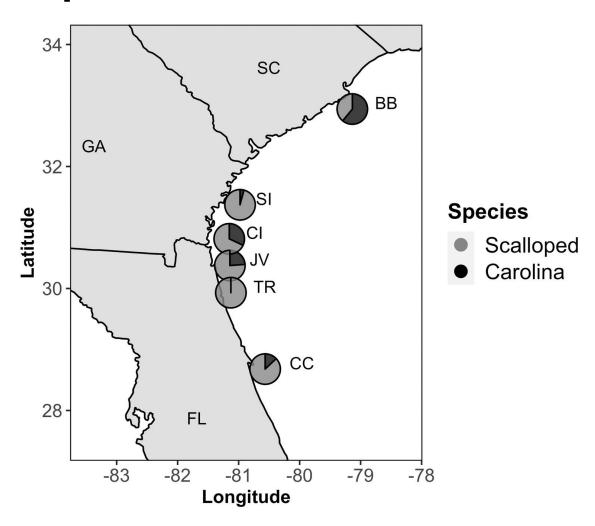
Over 95% of GTM sharks are newborn or juveniles

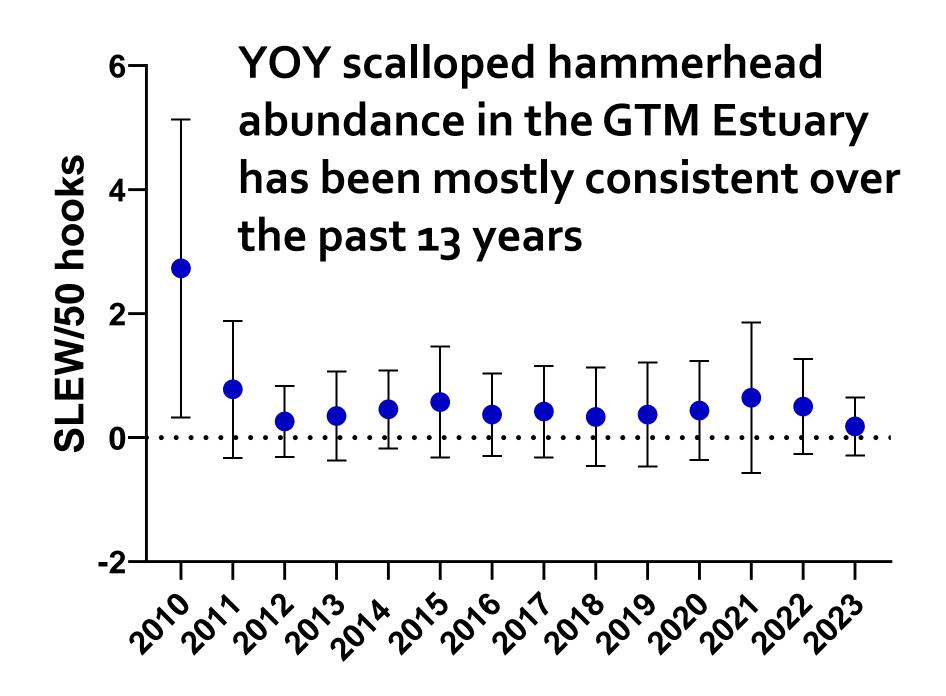


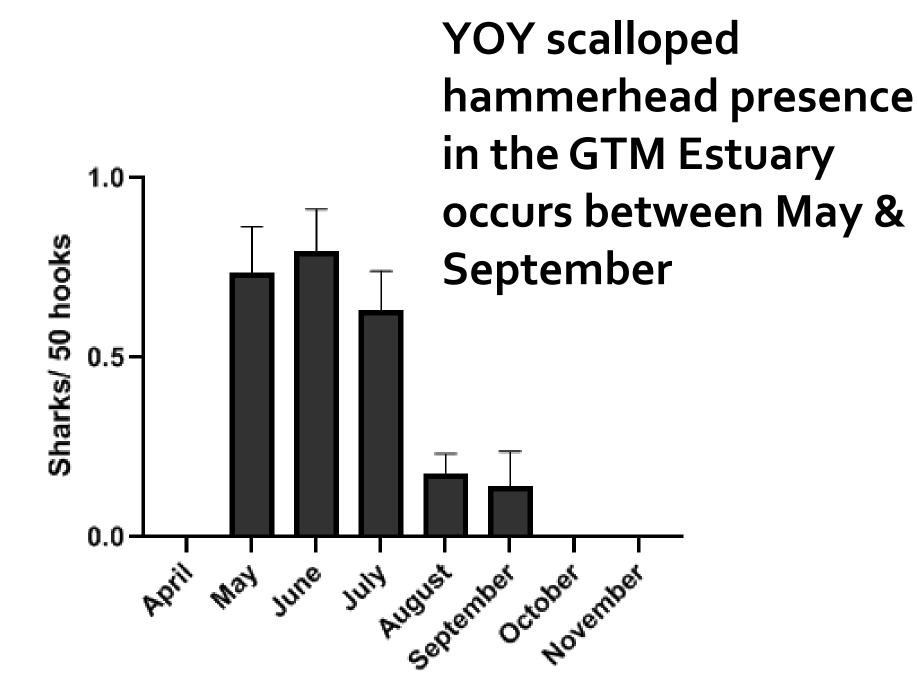
The GTM Estuary is a unique, inshore nursery for YOY scalloped hammerhead shark



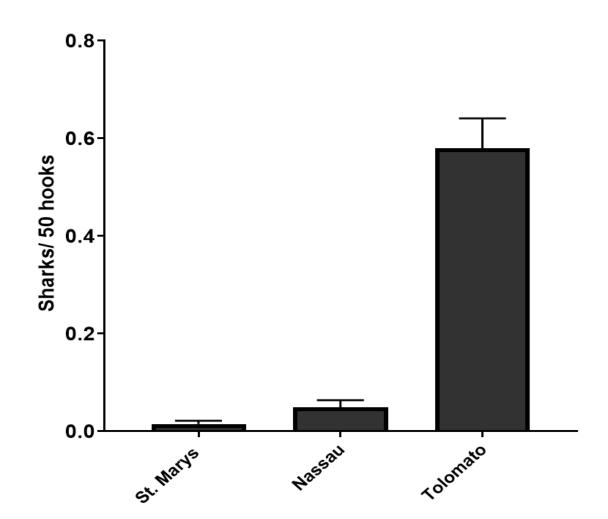
Unlike other "hammerhead" nurseries, the GTM Estuary only appears to be used by the scalloped hammerhead







YOY scalloped hammerhead abundance in the GTM Estuary greatly exceeds that in other northeast Florida estuaries





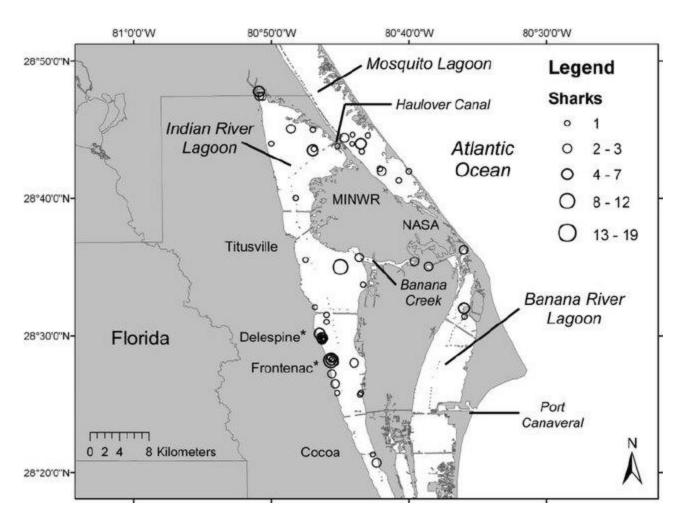
Lower risk of predation may explain preferential use of the GTM Estuary



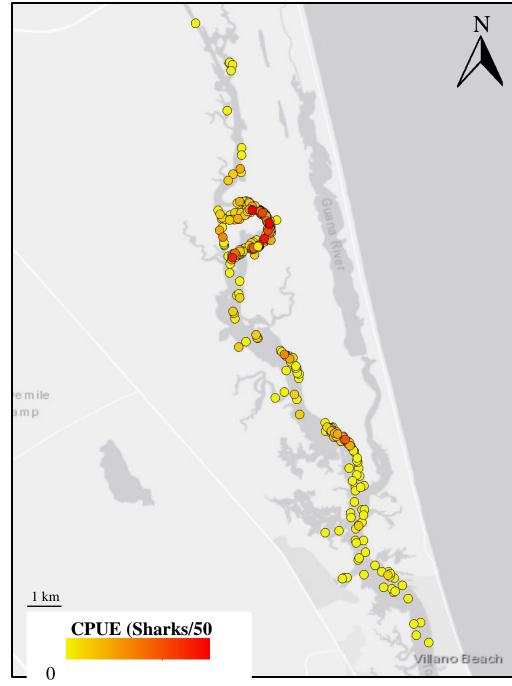


Of 120 drumlines, only 7 captures have been reported

Low abundance of large, predatory sharks may differentiate the GTM Estuary from the IRL

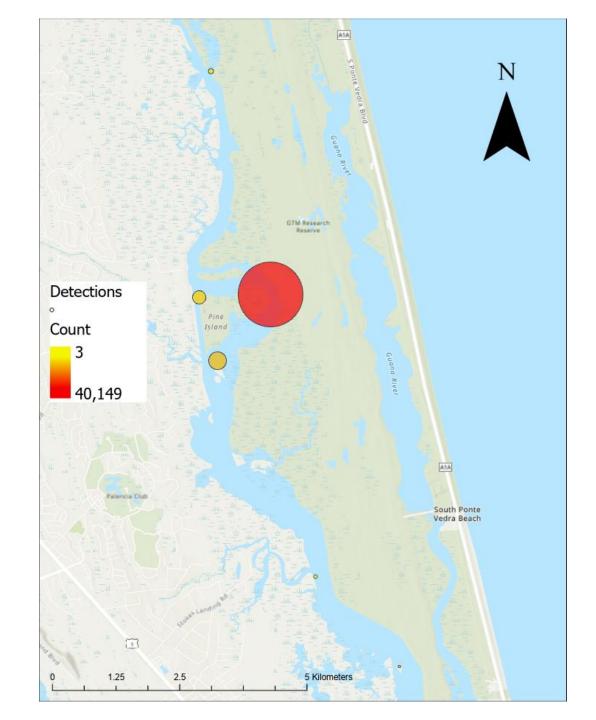


Scalloped hammerheads show preference for certain locations



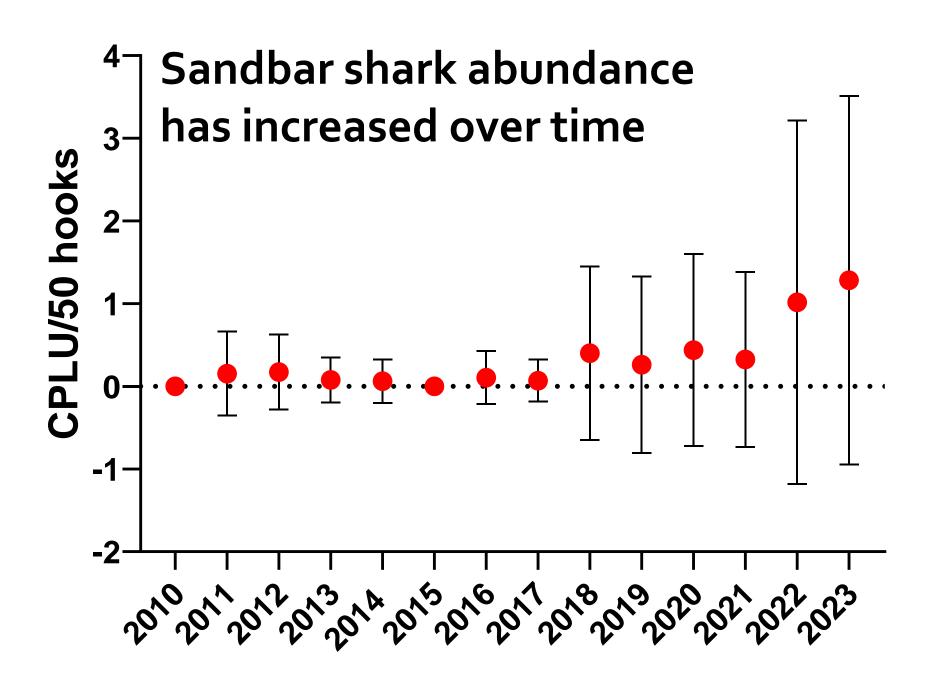


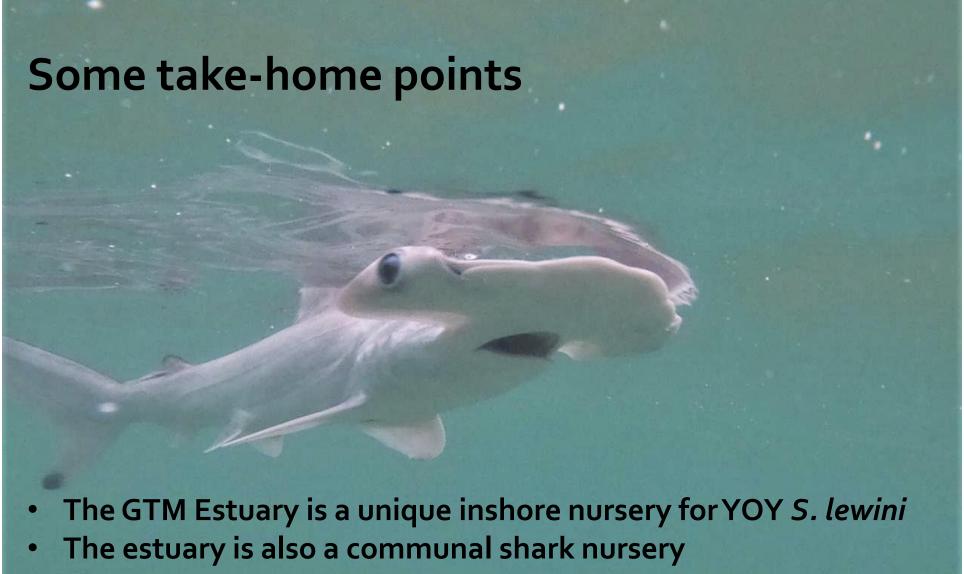
Scalloped hammerheads reuse "core areas" but still make occasional excursions



Sandbar sharks appear to make up a greater proportion of overall catch in recent years





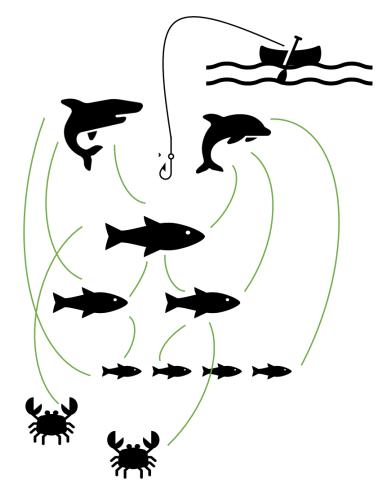


 Although long-term trends in shark catch are consistent, there are changes in species composition that warrant further study

Other studies underway in our program



Baited Remote Underwater Video survey of GTM sharks



Pollutant transfer in the GTM Estuary Food web

We extend our thanks to NOAA Fisheries and UNF for supporting this work





Please see me if you are interested in sponsoring our work!

