Welcome

NSU NOVA SOUTHEASTERN UNIVERSITY

B

Shepard Broad College of Law

Environmental Law Symposium

To the NSU Halmos College of Oceanography and Natural Sciences

NOVA SOUTHEASTERN UNIVERSITY College of Natural Sciences and Oceanography



#1: Established: 1966, Account Code 1-10000

Then: First NSU Center



NOW: One of Largest NSU Colleges



#2: HCNSO is a NSU Academic Leader, e.g.,

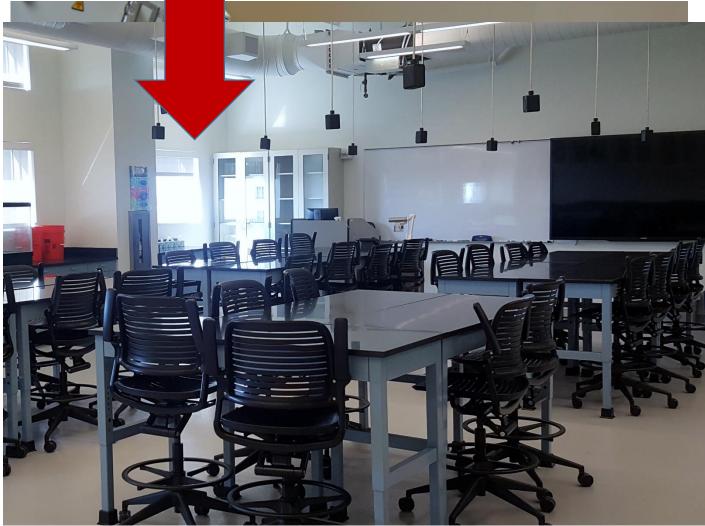
HCNSO BIOLOGY is the largest NSU Undergraduate Major
HCNSO Marine Biology: Large and fast growing Majors
HCNSO Chemistry and Math Majors new and growing



#3: DUAL Campus Splits



Labs and Classrooms Co-Located at the Ocean Campus and Main Campus





#4: Departments

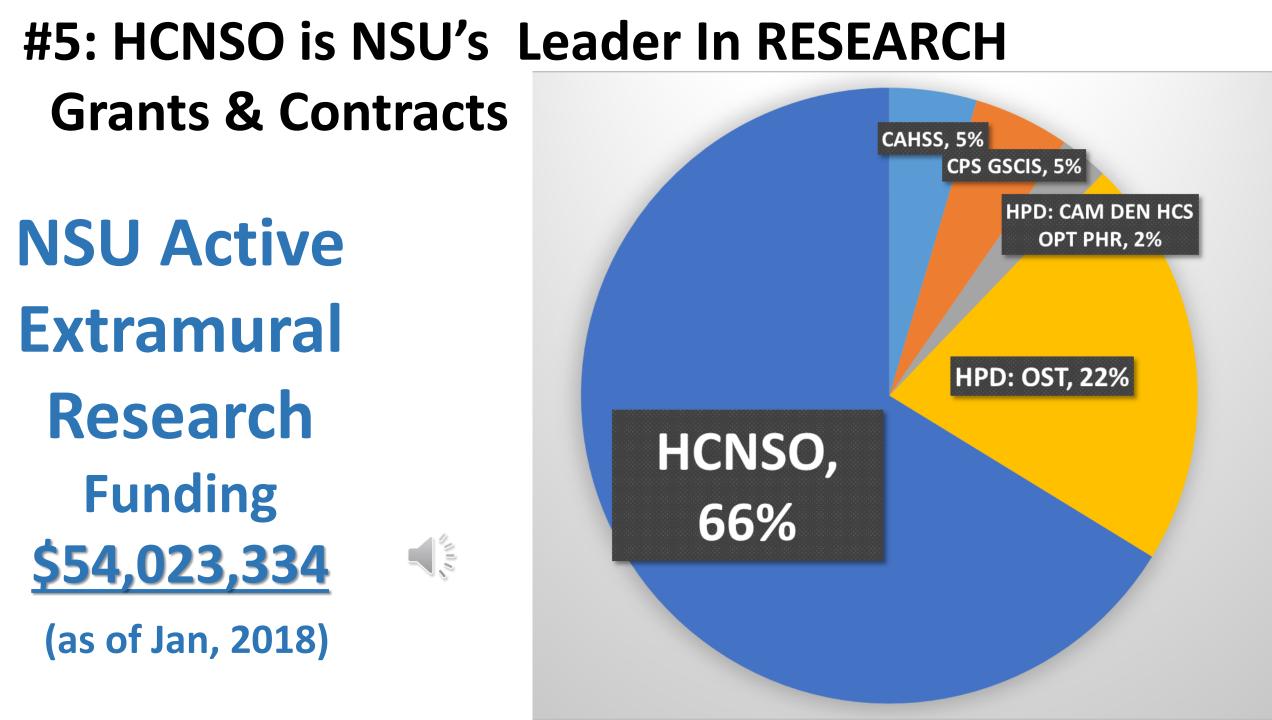
- Biology
- Chemistry and Physics
- Marine and Environmental Science
- Mathematics

BS: MARINE BIOLOGY MS: MARINE SCIENCE PPD

BS: MATH

BS & MS: BIOLOGICAL SCIENCES

BS: CHEMISTRY



#5: Research: Some Focus Areas Highlights

Corals & Coral Reefs

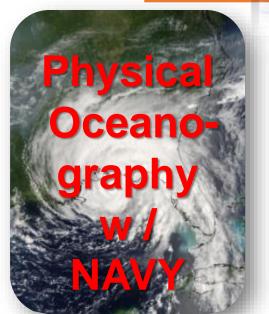
- Value: \$6B/71K jobs
- Assessment
- Restoration
- Mapping



Marine Conservation: Shark & Billfish

Ecology/Forensics/ Migrations





Invertebrates



Ecotoxicology





Seacor

Genomics, Metagenomics Bioinformatics



#6 Distinguished Namings

- Dr. Charles and Hamilton Forman Building
- Dorothy & Alexander Schure Building (originally NYIT engineering)





#6 Distinguished Names & Namings!



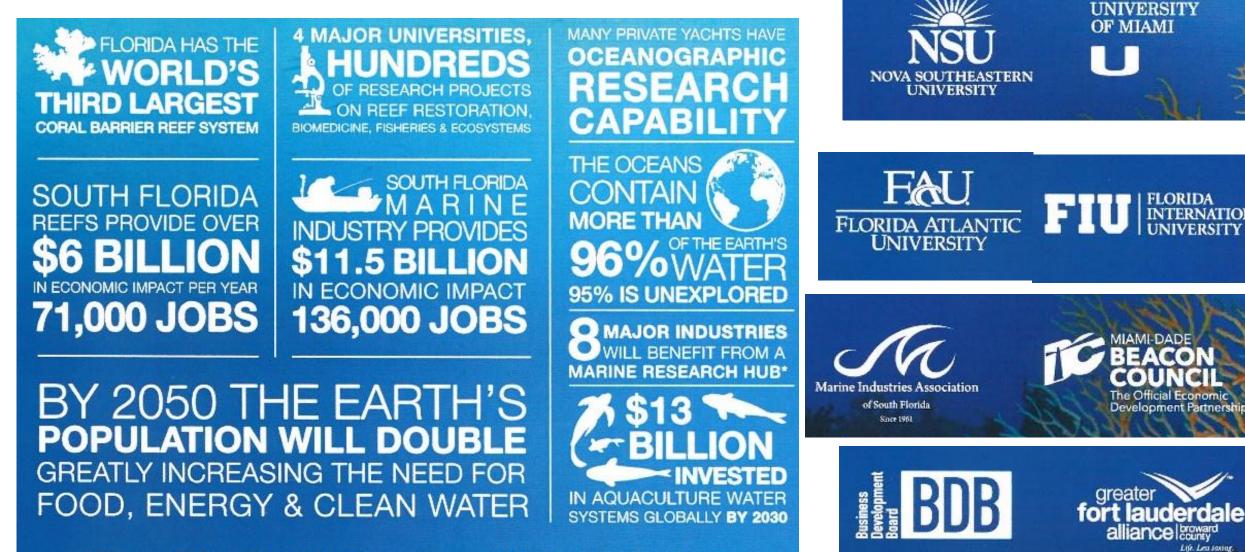
#6 Distinguished Names & Namings!

- Guy Harvey Oceanographic Center of Excellence • GHRI
- Halmos College of Natural Sciences and Oceanography





participation



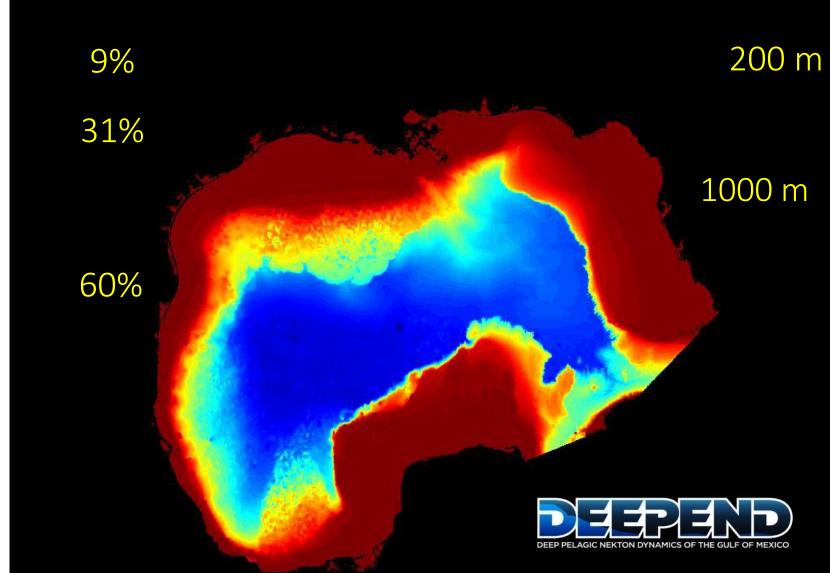
*Bio-medicine, Biotechnology, Energy, Marine Engineering, Defense, Aquaculture, Marine Recreation, Environmental

#8: HCNSO is Off The DEEP-END

Bathypelagic realm below 1000 m =earth's largest living space

NSU Sample set: largest in oceanographic history **Outnumbers all previous** samples combined; Of the 900 fish species collected from the Gulf since DWH, 180 are new records and ~22 are new species.

3-D Morphology of the Gulf of Mexico



The epipelagic at night - dragonfishes





Fishes of the mesopelagic realm - dragonfishes





Fishes of the mesopelagic realm

other nasties...

Telescope fish

Address & all and



So.....Should you worry?



Phew!





#9: HCONSO is for the Turtles



2017



Nesting

- 3,587 Nests (most since 1981) Loggerhead, Green, Leatherback
- 62% of Season Nests Excavated
 - 70% Live Hatchlings; Over 217,000 Eggs!
- Strandings, Education, & Outreach
 - Hatchling Releases, School Presentations
 - 158 Events/44,000+ Participants

• MEEC

- Opened Mar 2018; 10,000 visitors!
- School Programming Sci. Standards
- Hosts events with multiple groups



Marine Environmental Education Center CARPENTER HOUSE

> Broward County Parks and Recreation Nova Southeastern University





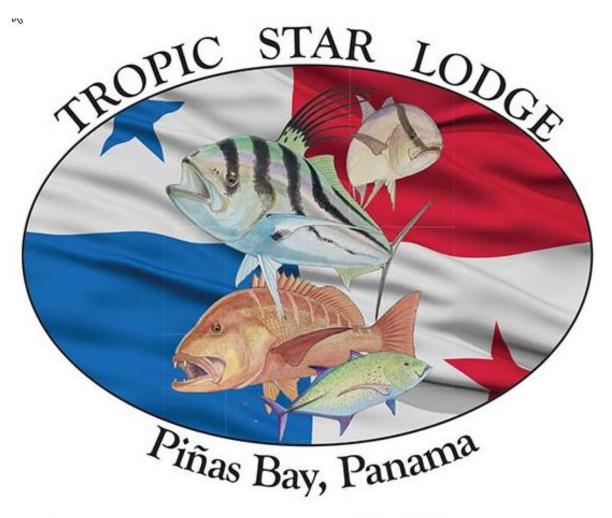


#10: FISHERIES RESEARCH with Partners





College of Natural Sciences and Oceanography





#10: PANAMA FISHERIES RESEARCH PARTNERSHIP

- Gamefish/Sharks
- Ecology, Migration, Genetics, Genomics
- Management & Conservation
- Partners:
 - NSU, Guy
 - Harvey, TSL
- PhD Scholarship
- 5 year duration
- Support Opportunities !



