

### **A View from the Bottom – Bite of Science Presentation by Michael Childress**

Ever wondered what it would like to visit a coral reef in person? I wondered that same thing when I was in school and have been pursuing that dream ever since. Marine biologists are just ordinary scientists with a strong interest in understanding life underwater. They acquire their special skills through training and advanced schooling, but they also specialize on subfields of science. For example, my research expertise is the behavior and ecology of marine animals and their response to climate change / habitat loss. I utilize tools from statistics, physics, engineering, and computer science. While a strong background in science, technology, engineering and math are a great foundation for becoming a marine biologist so is observation, curiosity, determination, dedication, sacrifice, creativity and teamwork. There are so many ways to become involved in helping our oceans from recycling to outreach education, from advocacy to becoming a citizen scientist. Every student, every teacher, everybody can make a difference improving the health of our planet and her oceans. We just need to work together.

### **Articles and web blogs about Childress lab research**

Are juvenile Caribbean spiny lobsters (*Panulirus argus*) becoming less social?  
ICES Journal of Marine Science (2015), 72(Supplement 1), i170 –i176. doi:10.1093/icesjms/fsv045  
[http://mchildr.people.clemson.edu/papers/Childress\\_et\\_al\\_2015.pdf](http://mchildr.people.clemson.edu/papers/Childress_et_al_2015.pdf)

Coral Crusader  
Clemson World Research – March 2018 – Volume 1  
<https://clemson.world/research/2018/03/08/coral-crusader/>

Conservation of Marine Resources / Marine Ecology – Creative Inquiry Team Blog  
<http://clemsonconservation.blogspot.com/>

Summer 2017 Field Research Blog  
<https://spark.adobe.com/page/fAuOyhwgUeFtH/>

### **General Information about Marine Ecology and Marine Resources**

Florida Keys National Marine Sanctuary  
<https://floridakeys.noaa.gov/>

NOAA – Coral Reef Watch (world-wide monitor of coral bleaching)  
<https://coralreefwatch.noaa.gov/satellite/index.php>

BleachWatch – Mote Marine Laboratory (Florida Keys monitor of coral bleaching)  
<https://mote.org/research/program/coral-reef-science-monitoring/bleachwatch>

50 Reefs – The Ocean Agency (non-profit seeking to preserve our last great coral reefs)  
<https://50reefs.org/>

### **Teacher Resources for Marine Science**

Third International Year of the Reef 2018 – UNEP

<https://www.icriforum.org/about-icri/iyor>

Digital Learning Program – Mote Marine Laboratory

<https://mote.org/education/digital-learning-programs>

Educational Resources – NOAA Coral Reef Conservation Program

<https://coralreef.noaa.gov/education/eduresources.html>

A creative way to help coral reefs recover – Science News for Students

<https://www.sciencenewsforstudents.org/article/creative-ways-help-coral-reefs-recover>

OKCoral Citizen Scientist Program – Coral Restoration Foundation

<https://coralrestoration.org/citizen-scientist/>

Something Very Fishy – A science outreach program coming soon

Kathy Prosser – [info@educationalentertainment.org](mailto:info@educationalentertainment.org)

Chasing Coral – A Documentary Film

<https://www.chasingcoral.com/>      <https://www.exposurelabs.com/>

**Online MS Degree in Biology Sciences for Science Educators – Clemson University**

<https://www.clemson.edu/science/departments/biosci/academics/online-masters/index.html>