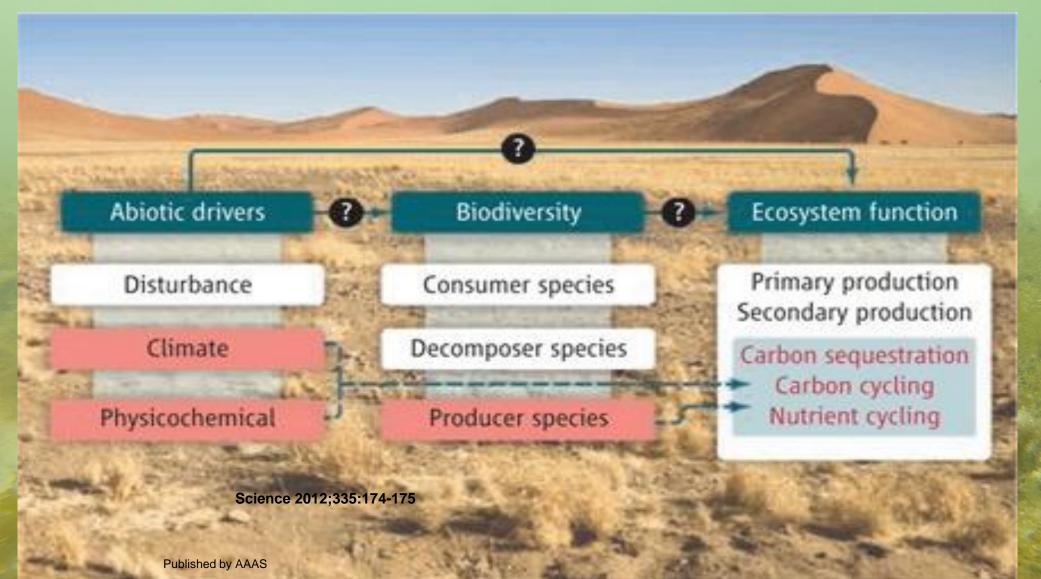
# BENTHIC BIODIVERSITY – Monitoring links ecosystem function to public outreach



THERE IS A QUANTITATIVE LINK BETWEEN DIVERSITY
AND FUNCITON





## THROUGH BIO-BLITZ EVENTS and NEW NATURALIST TOOLS, THE PUBLIC SEES THE VALUE OF DIVERSITY



- Bio-BLITZ EVENTS to engage scientists and students in diversity assessments
- i-NATURALIST app
- MARINE DEBRIS tracker

### **BISCAYNE NATIONAL PARK**

- QUICK LOOK REPORT WITHIN A WEEK OF SURVEYS
- TRENDS ON CHANGES IN DIVERSITY
- VISUAL REPORT ON WHAT STAKEHOLDERS SEE

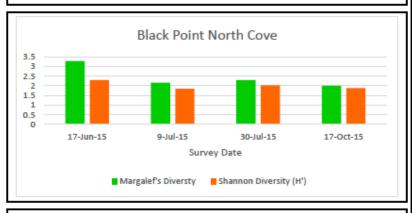
Survey Site Name: Black Point Location: Biscayne National Park

GPS Grid: 17R X: 0567742 Y: 2824668

Date of Survey: 17-Oct-2015

#### Abiotic Parameters for 17-Oct-2015:

Air Temperature (°C)	27.6*	Secchi Turbidity (m)	3.25
Water Temperature (°C)	26.37	Average Rainfall (mm/day)	6.6*
Oxygen (%)	61.78	Average Temperature	19.4-29.4*
Recent Rain (24 hours)	Yes	Range (°C)	
Salinity (ppt)	15.95	*taken from Homestead Air Reserve Base	



#### Invasive Species (highlighted if observed):

Lionfish (Pterois volitans/miles)

Mayan Cichlid (Cichlasoma urophthalamus)

African Jewelfish (Hemichromis letourneuxi)



The entry point for the fish survey.



The mucus sac of a bamboo worm (Clymenella torquata)



A iuvenile barracuda

#### Surveyed Species:

	Fish	Epifauna/Invertebrates
Species Count	7	3
5 most common fish; notable	Silversides (Atherinidae)	Scorched Mussel (Brachidontes exustus)
	Mullet (Mugil curema)	Bamboo Worms (Clymenella torquata)
	Grey Snapper (Lutjanus griseus)	Rock Oyster (Isognomon alatus)
	Mottled Mojarra (Eucinostomus lefroyi)	
	Yellowfin Mojarra (Gerres cinereus)	

### Visualize Water Quality - JUNE



## Visualize Water Quality - DECEMBER

