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Reviewed: 7/27/2021

National Coastal Condition Assessment 2010

Jenny Wrast

Environmental Institute of Houston

National Aquatic Resource Surveys Schedule

	FY07	FY08	FY09	FY10	FY11	FY12	FY13
Lakes	Field	Lab, Data	Report	Research	Design	Field	Lab, Data
Rivers	Design	Field	Lab, Data	Report	Research	Design	Field
Streams	Research	Design	Field	Lab, Data	Report	Research	Design
Coastal	Report	Research	Design	Field	Lab, Data	Report	Research
Wetlands	Research	Research	Research	Design	Field	Lab, Data	Report

Upper Texas Coast

11 sites in:

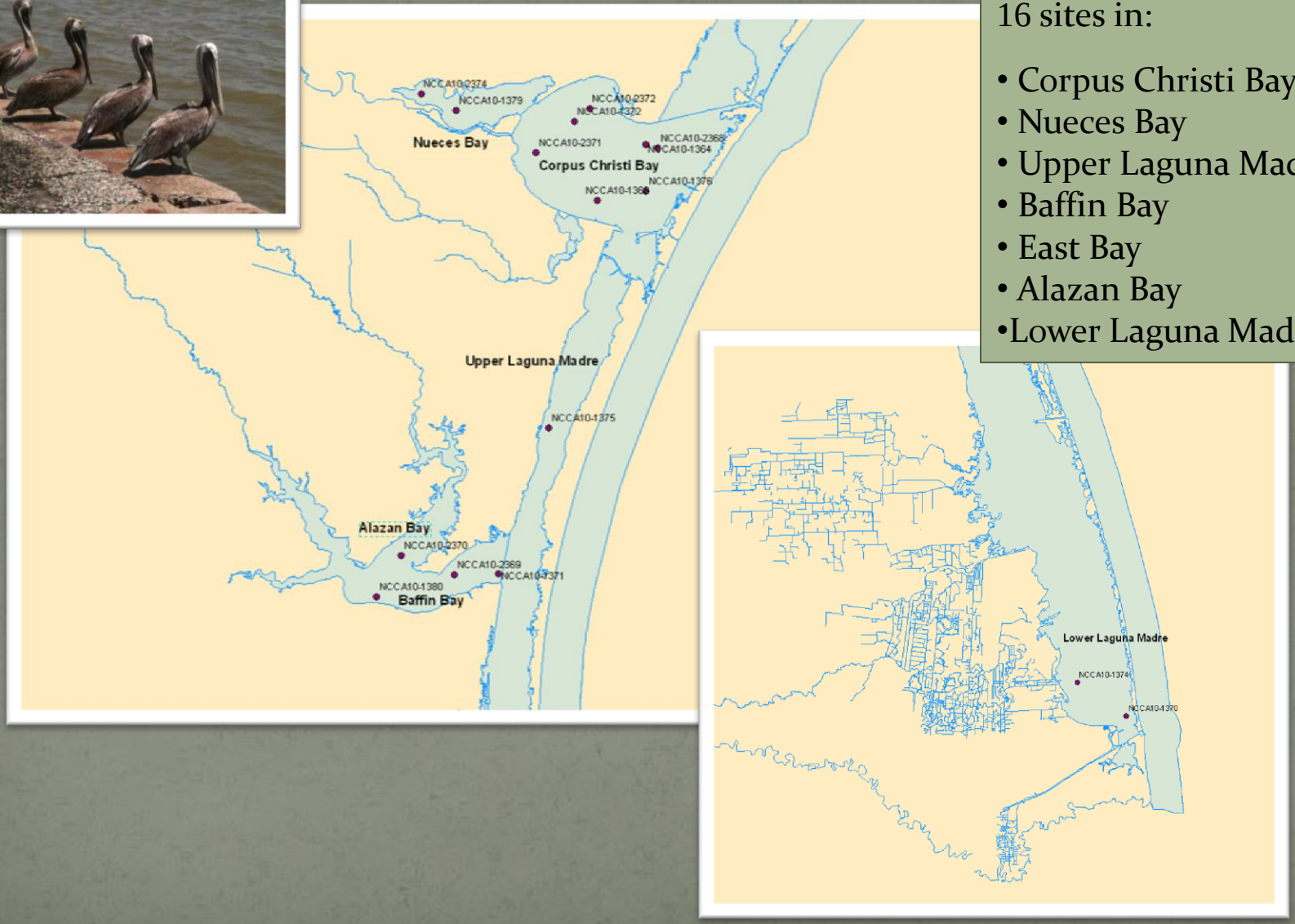
- Sabine Lake
- Galveston Bay
- Trinity Bay
- West Bay
- East Bay
- Christmas Bay

Middle Texas Coast

26 sites in:

- East Matagorda Bay
- Tres Palacios Bay
- Lavaca Bay
- Matagorda Bay
- Carancahua Bay
- Espiritu Santu Bay
- San Antonio Bay
- Ayres Bay
- Mesquite Bay
- Copano Bay
- Aransas Bay

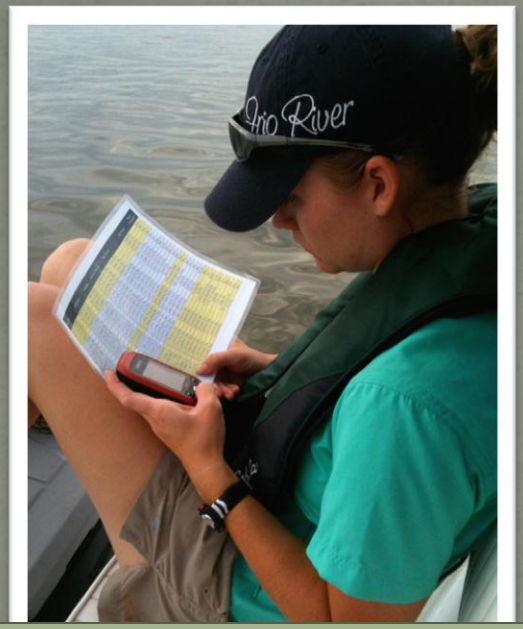
Lower Texas Coast



16 sites in:

- Corpus Christi Bay
- Nueces Bay
- Upper Laguna Madre
- Baffin Bay
- East Bay
- Alazan Bay
- Lower Laguna Madre

Logistics….



Locating the “X” Site

Tracking Forms

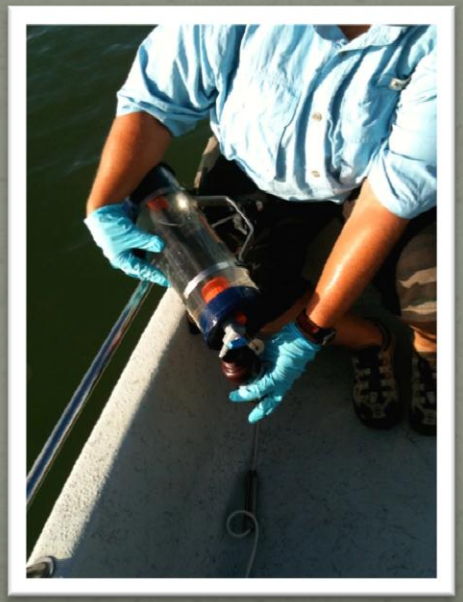
Finding Boat Launches

Recreational Indicator

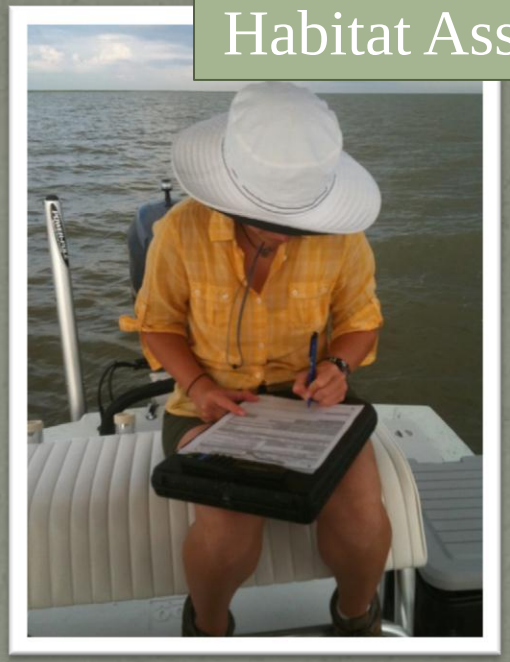
Pathogen Indicator

Enterococcus

Stressor Indicators–Water



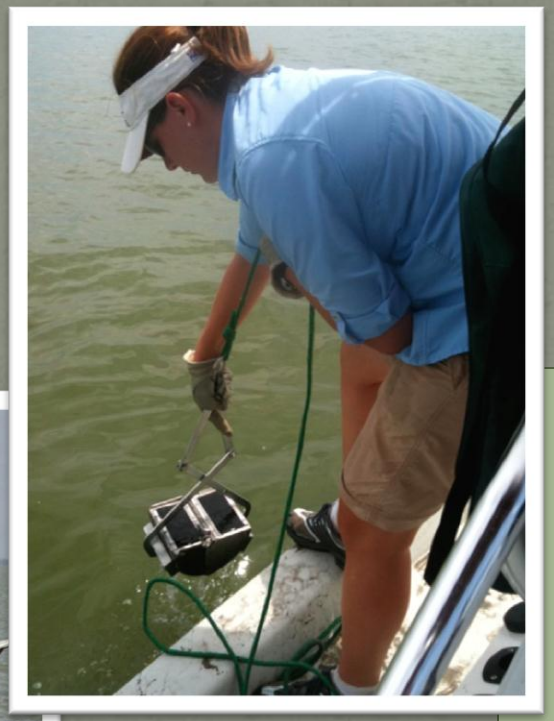
Habitat Assessment



Water

Field Measurements
Light Attenuation
Basic Water Chemistry
Chlorophyll
Nutrients

Stressor Indicators–Sediment



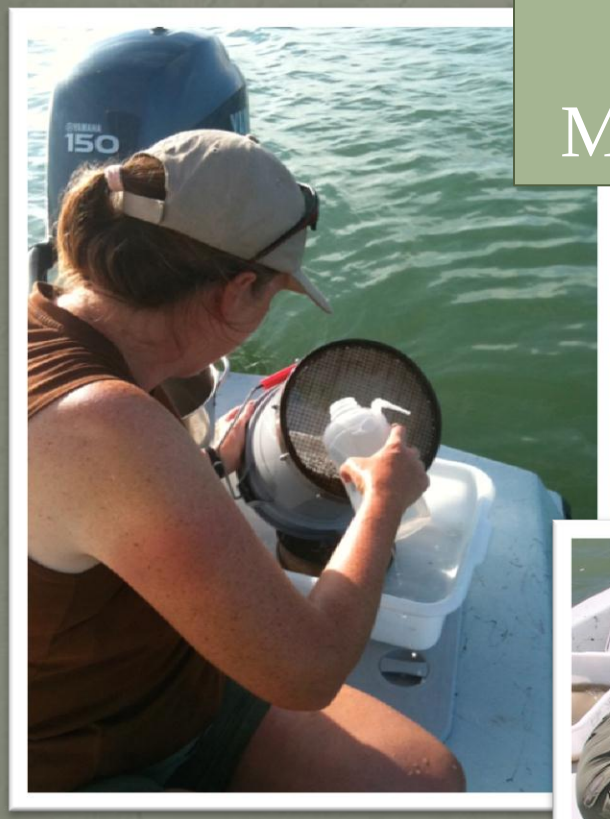
Sediment boat and equipment cleaned after every site.

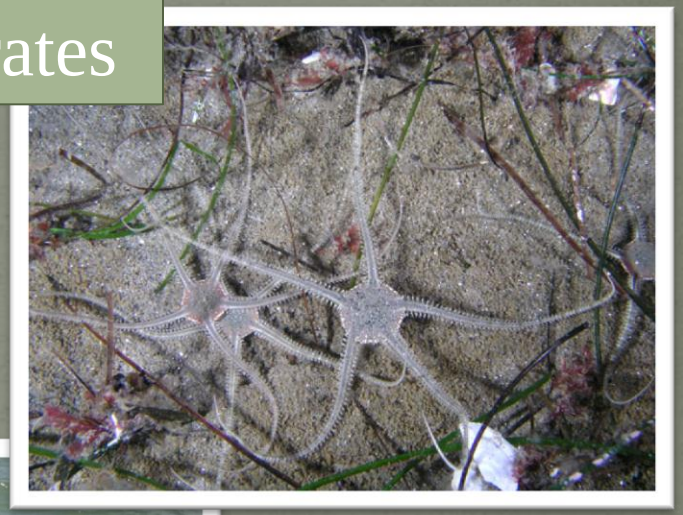
Sediment Chemistry and Composition

- Grain Size
- TOC
- Metals
- PCBs
- Organics

Ecological Integrity Indicators

Benthic Macroinvertebrates





Ecological Integrity Indicators

Sediment Toxicity

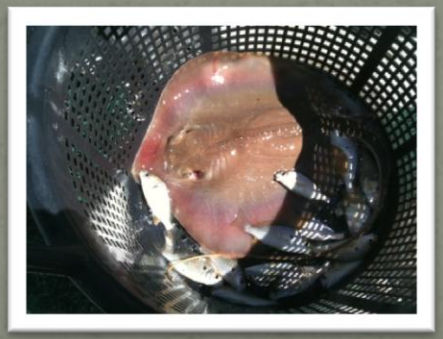
Minimum of 3-Liters of sediment required at each site.

Ecological Integrity Indicators

Croaker
Spot
Catfish
Sand Trout
Pinfish

Whole Fish Contaminants
- Metals
- PCBs
- Organics

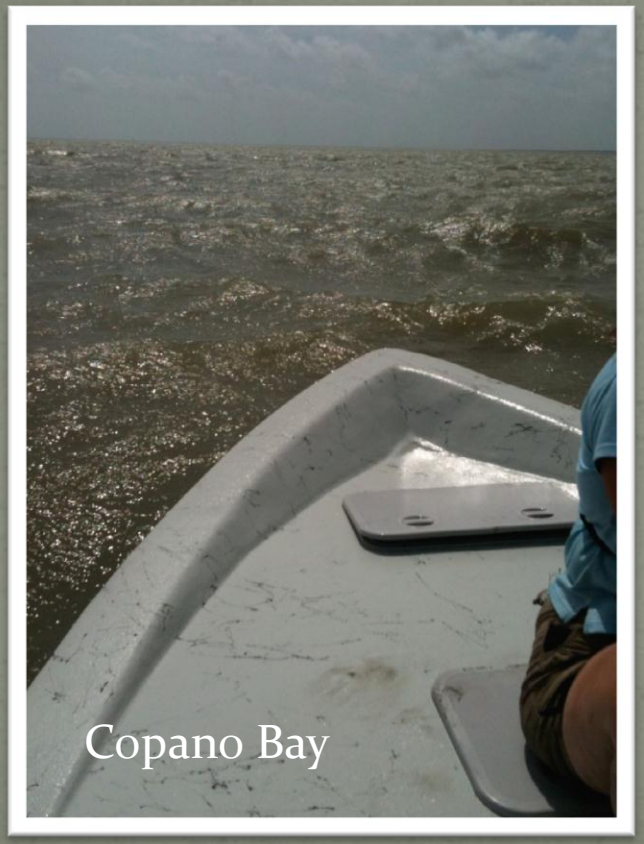
In the Trawl …



Weather Issues

Hurricanes Hermine & Igor

Wind & Rain



Staying Ahead of the Storm ?

San Antonio Bay—August

Trinity Bay—July

Copano Bay—September

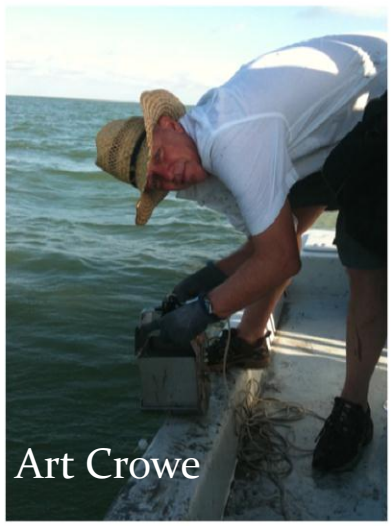
Constant Companions

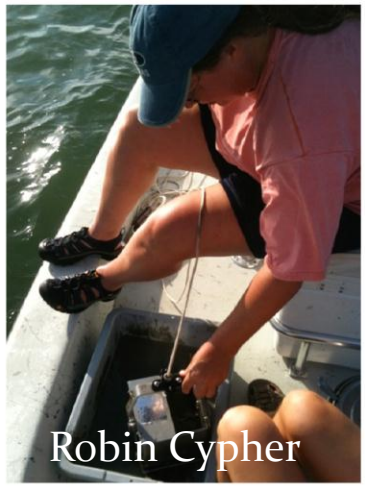
Core NCCA Field Team

UHCL-EIH

TCEQ

Ad Hoc Field Crew


Art Crowe


Robin Cypher

Anne Rogers

Michele Blair

Other
UHCL-EIH
Staff

Dr. George Guillen

National Wetlands Condition Assessment —2011

Coming Soon

			FY09	FY10	FY11	FY12	FY13
			Report	Research	Design	Field	Lab, Data
							Field
Streams	Research						Design
Coastal	Report	Research	Design	Field	Lab, Data	Report	Research
Wetlands	Research	Research	Research	Design	Field	Lab, Data	Report