

## PURPOSE OF SITE DESIGNATION SURVEYS

The sampling program is designed to fulfill two principal purposes:

- 1) yield data that are descriptive of the site environs and to characterize it sufficiently for preparation of an acceptable Environmental Impact Statement (EIS);
- 2) provide data that will be compatible with the potential monitoring program that may be carried out after final designation of the disposal site.

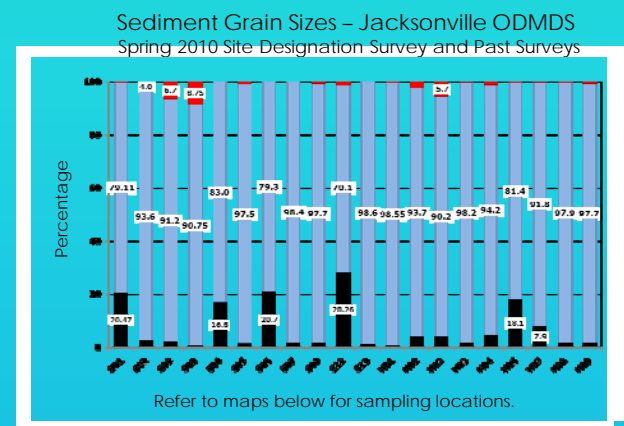


## ABIOTIC (NON-LIVING) RESOURCES

### Sediment Physical Composition

Results:

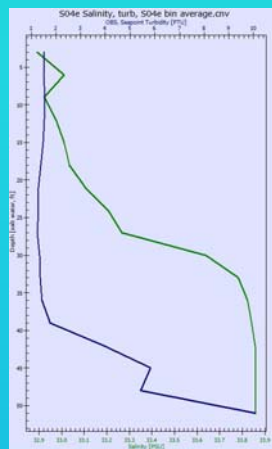
- Sand: 70.1–98.6%
- Silt and clay combined: 0.5–28.3%
- Little or no gravel: 0.0–8.8%
- Percent total solids ranged from 70.0% to 80.8%



### Sediment and Water Chemistry

Results:

- Sediment Tests Performed: Metals, PAHs, PCBs, pesticides
- No significant amounts of contaminants in the sediment have been observed
- Similar test will be performed for water chemistry in fall 2010



Salinity analysis.



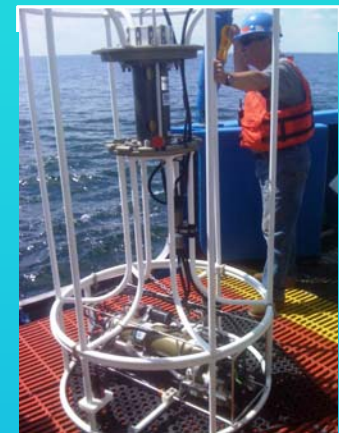
A "grab sampler" for sediment testing.

### Water Column Characteristics

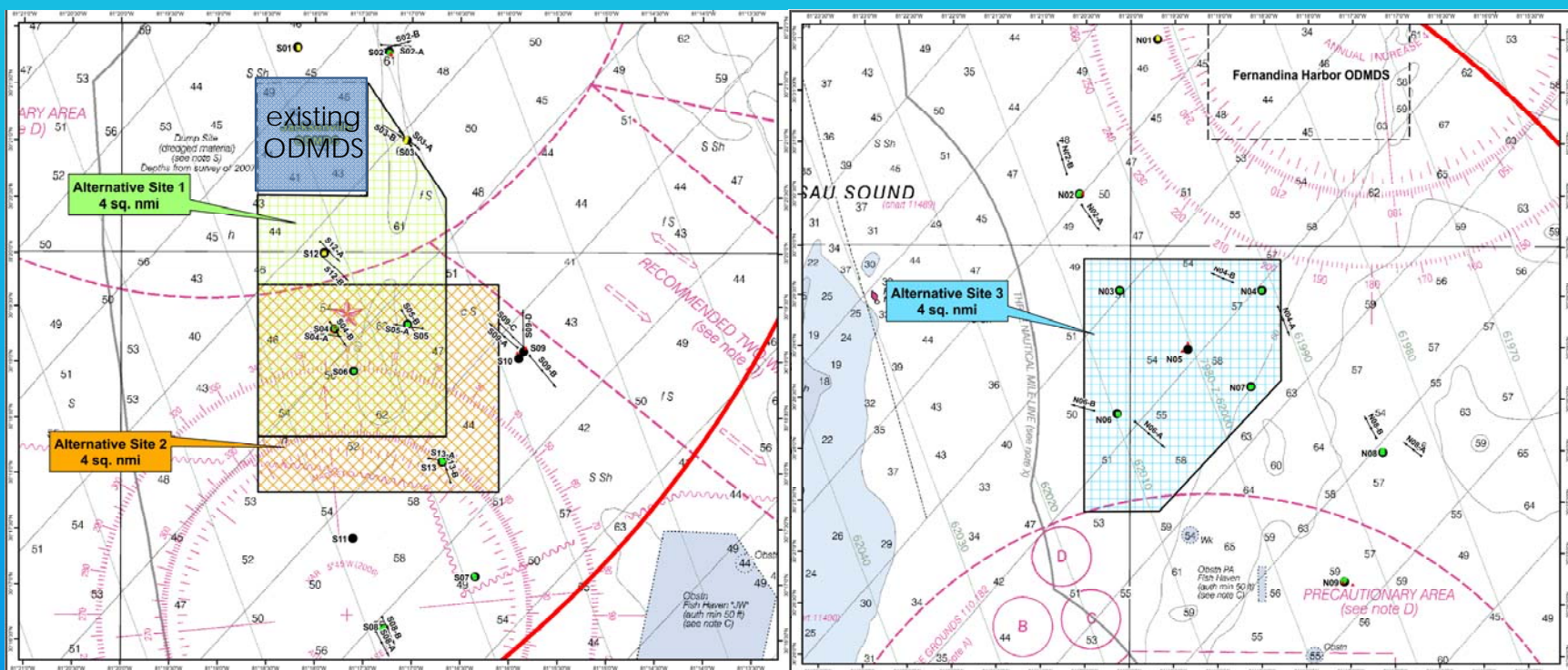
Results:

Correlations and additional measurements are scheduled to be taken in fall 2010.

- Temperature: 15.0°C to 16.7°C
- Salinity: 32.7 ppt to 33.9 ppt
- Dissolved oxygen: 7.4 mg/L to 8.2 mg/L
- Turbidity varied among all sites



CTD-profiler for water column characteristics testing.



#### LEGEND

- Sediment and infaunal samples
- Infaunal samples only (no sediment)
- ➔ Trawls (arrows show direction of travel)
- ▲ CTD-Profiler Samples
- Sampling Stations
- Candidate Site 3
- 10-nmi Radius

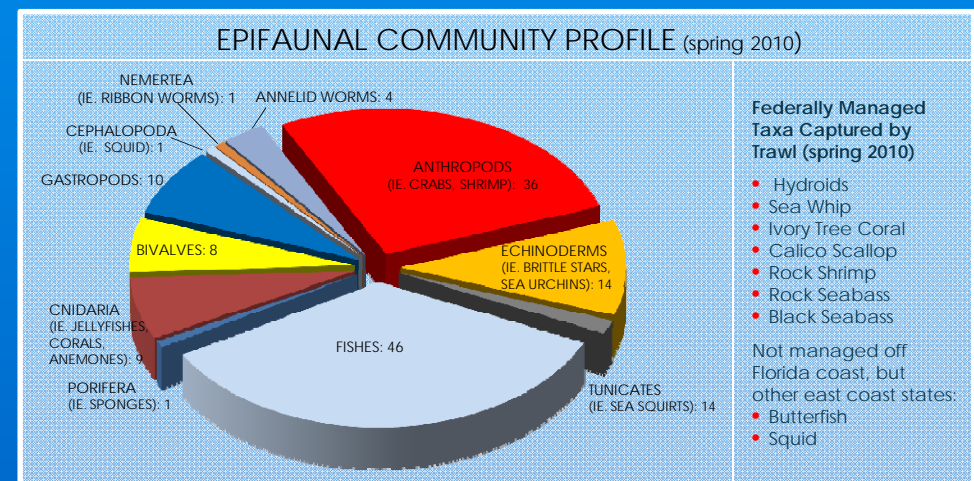
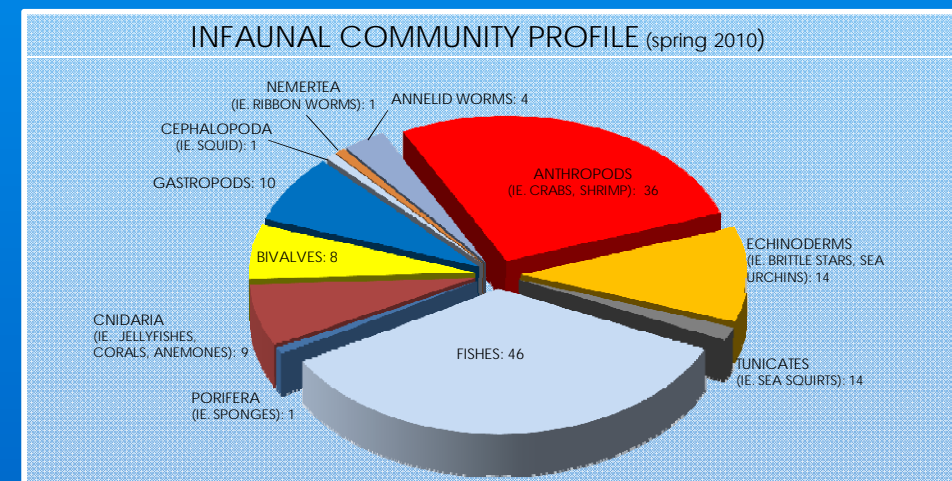
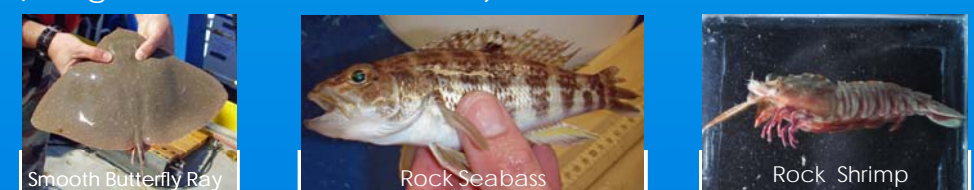
#### ALTERNATIVES AND SAMPLING STATIONS

## BIOTIC (LIVING) RESOURCES

### Infaunal Invertebrate Community (living in sediment)



### Epifaunal Community (living on or above substrate)



#### Federally Managed Taxa Captured by Trawl (spring 2010)

- Hydroids
  - Sea Whip
  - Ivory Tree Coral
  - Calico Scallop
  - Rock Shrimp
  - Rock Seabass
  - Black Seabass
- Not managed off Florida coast, but other east coast states:
- Butterflyfish
  - Squid