# The Alliance for Coastal Technologies





# Supporting the Technical Education & Training Needs of Tomorrow's Ocean Observing Workforce

Ali L. Hudon ACT Gulf of Mexico Partner Education & Outreach Coordinator



A NOAA-funded partnership of research institutions, state and regional resource managers, and private sector companies interested in developing and applying sensor technologies for monitoring coastal environments.

See http://act-us.info

### Alliance for Coastal Technologies Partner Institutions



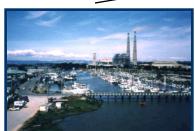
# **Diverse Environments**





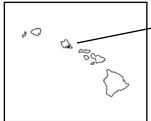








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# Alliance for Coastal Technologies Stakeholders' Council

- Members from private sector companies and environmental management agencies.
- Members participate in planning and decision-making to ensure a focus on service-oriented activities.
- Help foster the interactive flow of information and ideas between various sectors and end users.



# Alliance for Coastal Technologies Technology Workshops

- Workshops focus on specific sensor technologies for use in coastal environments.
- Workshop participants include equal numbers of researchers, managers, and representatives from private sector companies.

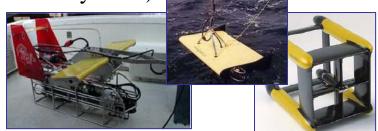
### Workshop Goals:

 To help build consensus on the steps needed to build useful tools, while also facilitating critical dialogue among technology manufacturers, developers, and end users.



# Alliance for Coastal Technologies Recent Technology Workshops

Towed Vehicles as Platforms for Mapping Coastal Features and Processes (MML/MBARI, February 2007)



Passive Acoustic Hydrophones (UH/SOEST and UAF/ASLC, February 2007)



 Wave Sensor Technologies (USF/NDBC, March 2008)





 State of Technology for *in-situ* Measures of Salinity Using Conductivity Temp. Sensors (SkIO, December 2007)







# Alliance for Coastal Technologies Technology Evaluations

### **Technology Verifications:**

- Evaluations of *commercially-available* instruments to verify manufacturers' performance specifications or claims;
- ♦ Conducted at 5 or more (but typically all) Partner Sites.

### **Technology Demonstrations:**

- Abilities and potentials of *new* technologies established by working with manufacturers and developers to field test the instruments in diverse environmental conditions;
- ✤ Typically conducted at 2-3 Partner Sites.

**Alliance for Coastal Technologies** Recent & Upcoming Technology Evaluations

**Recent: Nutrient Analyzers (2007)** 

♦ YSI 9600 Nitrate Analyzer



- Wet Labs Cycle P Nutrient Analyzer
- ♦ American Ecotech NUT 1000
- Satlantic ISUS V3 Nitrate Analyzer



#### <u>Upcoming:</u> C-T Sensors for *In-Situ* Salinity (2008)

pCO<sub>2</sub> Sensors for Ocean Acidification (2009)





#### HAB Sensors (2009)



# Wave Height Instruments (tbd)



## Alliance for Coastal Technologies Data & Information Clearinghouse

#### http://www.act-us.info

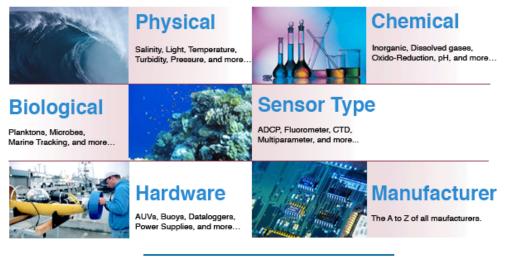
- ♦ Continuously updated
- Instrument description & technical specifications
- Cost & manufacturer contact information
- Workshop & evaluation reports; CNUAs

#### Looking for an Instrument?

- · Identify technologies available to meet your needs.
- · Search by environmental parameters, sensor types or manufacturers.

This is a living database that is continuously updated. Please help us provide the information you would like to see in the most useful format by sending us your comments. New Information, corrections, suggestions, and constructive criticism will only improve the quality of the database and this site. Please email us with your suggestions.





### Alliance for Coastal Technologies Technology Discussion Forum



Alliance For Coastal Technologies

New Discussion Forum - Please register for a new account as this has replaced the previous forum

Q Search... Search

💮 Board index

It is currently Sun Oct 26, 2008 7:17 pm

View unanswered posts . View active topics

SENERAL TOPICS	TOPICS	POSTS	LAST POST
General Topics & Comments Open forum for topics not related to those listed below	1	1	by mreardon G on Fri Jan 11, 2008 3:43 pm
Ben News & Events     Discuss past and upcoming events related to ACT	9	9	by Jason Cook D on Mon Sep 15, 2008 9:35 am
Industry Announcements News, events, job openings, etc.	0	0	No posts
SENSOR TECHNOLOGIES	TOPICS	POSTS	LAST POST
E Animal Tracking	0	0	No posts
Buoys / Drifters	0	0	No posts
Conductivity / Salinity	0	0	No posts
E CTD	1	4	by Jason Cook D on Thu Oct 18, 2007 3:51 pm
Current / Flow Discussion on current meters & profilers, flow meters, velocimeters, and ADCP's	0	0	No posts
Dissolved Gases / DO	0	0	No posts
Fish / Plankton Discussion on biological samplers, nets, counters, etc.	0	0	No posts

# Alliance for Coastal Technologies Field Guides & Training Opportunities

### **Training Opportunities:**

- Offered for DO and nutrient sensors
- Timed to coincide w/field verification trials
- Purpose: to gain hands-on experience using the sensors with manufacturers present

### **Field Guides (Best Practices Guides):**

- Planned for fluorometers, DO sensors, turbidity sensors, and nutrient sensors



