

UNOLS Early Career Investigator Chief Scientist Training Program

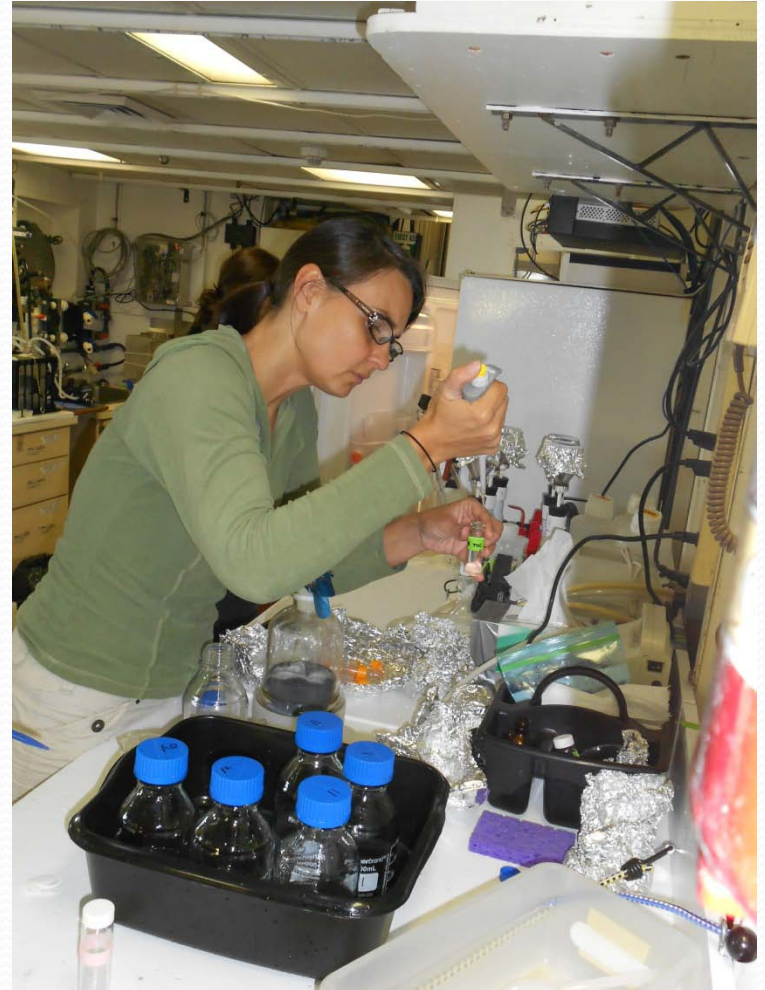
Clare Reimers
Report to FIC
October 22, 2012



Program development

- Started in 2011 as a response to declining ship utilization
- Two initial training cruises with pre-cruise workshops funded by NSF on *R/V Wecoma* in July and September 2011

Penny Vlahos
co-chief
July 2011



Program Goals

- teach early career marine scientists how to effectively plan for, acquire, utilize and report on time at sea for multi-disciplinary research and education
- demystify the process of ship operations and fulfill the intent of UNOLS to improve access to existing and future facilities
- offer new investigators opportunities to test compelling research ideas, work collaboratively and acquire samples critical for developing future oceanographic field programs

Secondary Benefits

- Review of UNOLS cruise support procedures and information sources of operators
- RV Tech exchanges
- Encouraged DeSSC Student/Early Career Scientist Workshop
- UNOLS-wide Chief Scientist Handbook (?)

-see new SIO website

SIO Res Tech
Meghan Donohue
on *Wecoma*



Current Agency Support

Grant: EAGER-Training Chief Scientists for the Ocean Research of Tomorrow

Duration: March 1, 2012 – February 28, 2014

Project support: \$151,626

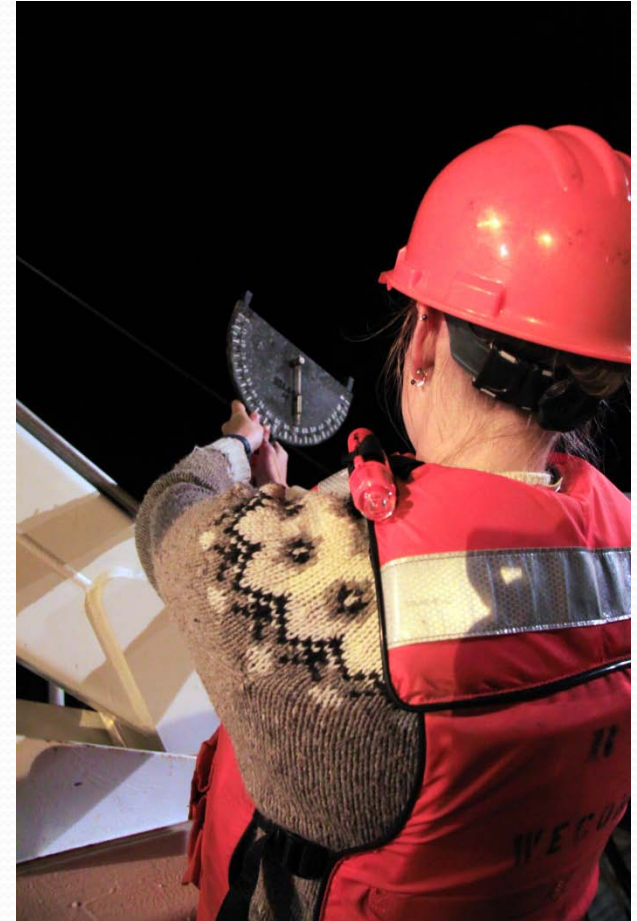
2012 and 2013 ship time (ONR and NSF supported)

2012 Program

Applications closed June 1, 2012

39 applications received from 24 institutions

November 8-17, 2012
SIO Marine Operation Facilities
& *R/V New Horizon*



2012 Participants

Gender

9 female

5 male

Positions

1 Professor

1 Assoc. Sci.

4 Assist. Prof./Sci.

1 Res. Assoc.

5 Post-docs

3 Graduate Students

Disciplines

Chemical Oceanography

Biological Oceanography

Atmospheric Chemistry

Geomicrobiology

Physical Oceanography

Ocean Engineering

Institutions

UCSB

U Minn-Twin Cities

URI

SDSU

WHOI

UW

OSU

La Sierra U.

U Wisconsin-Milwaukee

USC

NRL

Mar Techs

Meghan Donohue and Robb Hagg

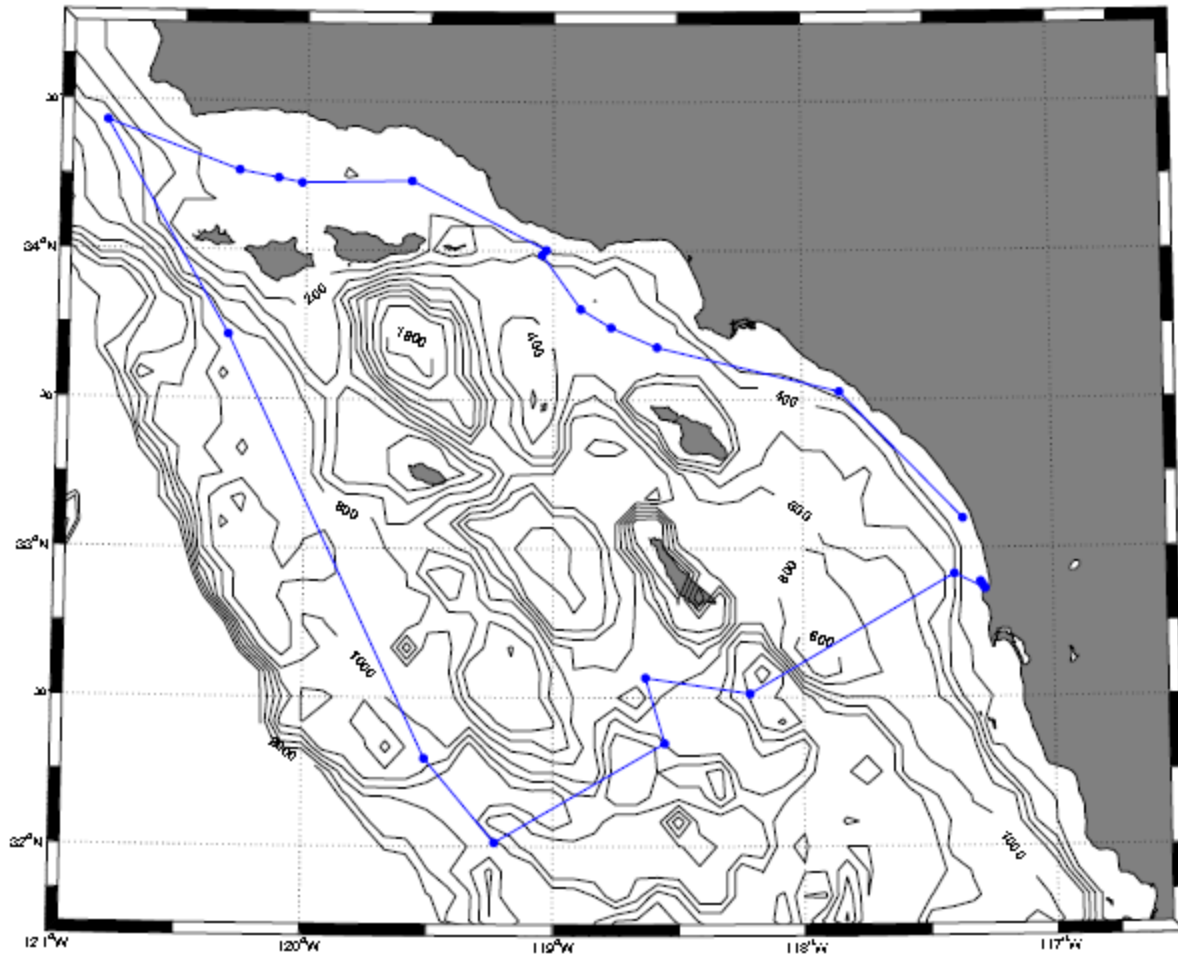
Mentors

Clare Reimers and Dave Checkley

Pre-cruise agenda

Opening AGENDA For UNOLS TRAINING CRUISE			
Date/Time	Event	Lead	Location
7-Nov	Participants Arrive and stay on New Horizon		Nimitz Marine Facility 297 Rosecrans Street, San Diego CA 92106-3505 858-534-1644
8-Nov			
8:30 AM	Coffee and Pastries		MARFAC Conference Room
9:00	Welcome and Introductions	Clare Reimers (OSU)	MARFAC Conference Room
9:15	History, Purpose and Structure of UNOLS and the UNOLS Fleet	Jon Alberts (UNOLS Executive Secretary)	MARFAC Conference Room
9:45	Shiptime requests and Scheduling (including discussion of different agency requirements)	Jon Alberts	MARFAC Conference Room
10:15	Planning International Cruises and for cruises using Deep-Submergence Assets	TBD	MARFAC Conference Room
10:45	Blue Water Diving Off UNOLS Ships	Christiaan McDonald--SIO Dive Safety Officer	MARFAC Conference Room
11:00	Break		MARFAC Conference Room
11:15	Tour of SIO Ship Operations and Dock Support Facilities	Meghan Donohue (SIO)	
12:00	Lunch and introductions to ship's captain and crew		New Horizon
13:00	Bridge to transducer well tour of New Horizon-emphasizing ship's science equipment		
15:30	Group review of deck and lab space utilization		
16:00	Pre-cruise planning: Hazmat and Radioisotope Usage, Chemistry Services, Shared Use Equipment	Susan Becker ODF	
17:30	dinner		New Horizon
19:00	Introduction to the Oceanography of the Southern California Current	David Checkley	
19:45	From Proposal to Post-cruise: Responsibilities of a PI/Chief Scientist	Clare Reimers	
20:30	visit to local brew pub		

Cruise Track- 7 days at sea



Science support and science equipment to be utilized

CTD/Rosette

Bongo nets

Multi-corer

Cold and lab vans

Surface flow through system and surface pumping

Meteorological -atmospheric sensors

ADCP

MOCNESS

ADV

Quantum Cascade Laser



STRS tracking of 2011 participants

- Number STRS members: 9 (of 28)
- New Ship Time Requests as PI or co-PI:
 - C. Hintz, Savannah State, 10 requests funded-REU program
 - K. Null, UCSC, 2 requests pending
 - K. Osborn, Smithsonian, 2 requests pending
 - A. Santoro, UMCES, 2 requests declined
 - D. Thornton, Texas A&M, 6 requests pending
 - P. Vlahos, U. Conn., 4 requests declined

UNOLS Outreach- AGU Poster Dec 7, 2012

Training Chief Scientists for the Ocean Research of Tomorrow

Clare Reimers and Jon Alberts

The UNOLS Early Career Chief Scientist Training Program is designed to instruct participants in all of the “cradle to grave” phases of expeditionary oceanography, from the initial proposal, to science and cruise logistics planning, to cruise execution and post-cruise reporting. During the past 2-years, with support from NSF, the program has sponsored three participant-led multi-disciplinary cruises on UNOLS vessels together with pre-cruise informational short courses. Two Senior Scientists and two Marine Technicians work with 14 participants per cruise to accomplish well-scrutinized science plans led by two participant co-chief scientists. Participants are chosen from a pool of applicants based on their passion for oceanography, their desire to take on cruise leadership, the quality and feasibility of a research project they bring to the cruise, and long-term research aims. To date the participants have come from 28 different academic institutions and have included graduate students, post-docs, research scientists, teaching faculty and a center director. Hallmarks of the program lauded by the participants include insight into cruise leadership and ship operations not provided by any other means; new appreciation for other marine science disciplines and sampling techniques; the establishment of collaborations and newly inspired science questions based on shared data; and understanding of what UNOLS is and how UNOLS staff and marine technicians can assist with future seagoing projects.

Come see the poster and hear about November cruise!