SEAMAP: A COLLABORATIVE, UNDERGRADUATE-FOCUSED SEAFLOOR MAPPING PROGRAM

The Seafloor Mapping Program (SeaMap) is a collaborative partnership among the College of Charleston, University of Washington, NOAA and CARIS, Inc. SegMap offers undergraduate students multibeam sonar bathymetric survey training, shipboard experience, and research and internship opportunities. Students learn the CARIS HIPS multibeam processing software, gain at-sea experience, conduct projects, and present research. Projects use both SeaMap cruise sonar data and data provided by government and academic colleagues. Begun in 2007 at CofC and expanded to UW in 2011, 62 students have participated in one of six SeaMap Programs. More than 77% of the 'Beam Team' participants from years 2007-2011 have continued to use their skills with private industry, government programs, or graduate schools in sea survey-related fields.



Paul Cooper (CARIS USA)

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SEAMAP VISION

Develop a strong and qualified workforce of ocean surveyors in support of the academic, research and operational maritime communities.

Josh Mode (CARIS USA)

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MISSION

Establish the Seafloor Mapping Program (SeaMap) as a recognized academic program that offers practical experience, field training, and innovation in ocean surveying complemented by classroom education in marine geospatial sciences.



SCHOOL OF OCEANOGRAPHY



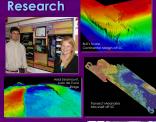
SeaMap is a partnership am he College of Charleston, University of Washington, CARIS, NOAA, and Private Industry

Coursework

Through its Academic Partnership Program, CARIS is developing online video tutorials that aid students in learning critical ocean survey and database software.









In addition to presenting at their home institution, more than half of the SeaMap students have presented their work at a National or Regional meeting.

Each of the four requirement areas are described briefly below And serve to develop foundation competencies in ocean surveying.

- Coursework: A core of required and elective courses will be developed for academic credit to teach students a comprehensive suite of critical software and other tools for use in ocean surveys. Courses will be taught in classroom settings and, in time will be made available online to students anywhere.
- their skills to geological and biological studies. Partners from NOAA, USGS and others provide numerous datasets for student research.
- at-sea (seafloor and water-column surveys) and in the field, during which students will work on data-rich training and research projects gaining direct experience with technology innovation and research.
- numerous internship opportunities available to students. These internships will range in duration, scope and pay.

Field Experience





Students learn multibeam sonar acquisition and processing software during student-dedicated cruises aboard the UW's research vessel, the R/V Thompson and aboard the NOAA Ship Nancy Foster.

Where Do They Go???





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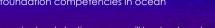


Internships

NOAA has provided students with internship opportunities on hydro-

graphic survey and

research vessel



Summer internships with

of the Address of

private industry have

also been provided

- Research: Students are encouraged to conduct research, applying
- Field Experience: SeaMap will require critical practical experience both
- Internships: Through partnership development, SeaMap will have