

NEWSLETTER

WOODS HOLE OCEANOGRAPHIC INSTITUTION

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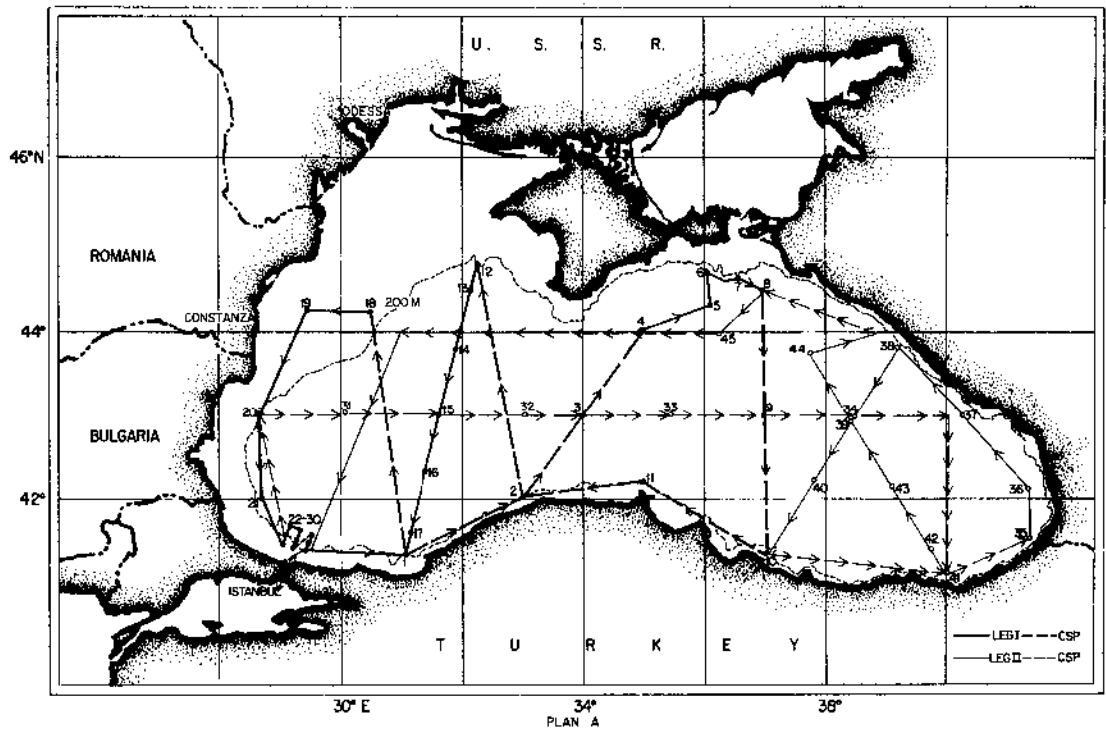


MEDOC 69 - ATLANTIS II

The *Atlantis II* will depart from Woods Hole on January 6 for a six and one-half month cruise in the Mediterranean and Black Sea on a program titled MEDOC 69 (Mediterranean Oceanography).

The Mediterranean influences the waters of the North Atlantic, and the formation of this dense water mass is of great interest to the scientists of many countries. The cruise plan calls for the participation of five ships: HMS *Hydra* and *Discovery* from the United Kingdom, the *Jean Charcot* and *Origny* from France, and R/V *Atlantis II*. Joining these ships will be the Institution's C-54Q and an Italian ship *Dectra*.

Scientists participating in the cruise will come from several institutions and nations including the Massachusetts Institute of Technology; National Institute of Oceanography, England; the University of Southampton, England; Laboratoire d' Oceanographic Physique, France; Scripps Institution of Oceanography, and some German scientists. While cruising the eastern section of the Mediterranean, scientists from other nations will be invited to take part.



SHIP SCHEDULES

ATLANTIS II: Leaving Monday, January 6, for the Mediterranean with Henry Stommel as Chief Scientist. See story on page 1.

CHAIN: Will be in port until the beginning of February.

GOSNOLD: Will be in port until February 10 when she leaves for Lima, Peru, via West Balm Beach and Panama.

C-54Q: Will be making a trip to France on February 27 in conjunction with the *Atlantis II* cruise.

NATIONAL GEOGRAPHIC MOVIE TO BE SHOWN

The Woods Hole Child Center is presenting the color movie "Americans on Everest" narrated by Orsen Wells on Saturday, February 1, 8 p.m., at the Lawrence High School Auditorium. This classic one-hour film, taken by members of this historic expedition, was the first movie presented by the National Geographic Society on their TV series. Charley Hollister will introduce the film and exhibit mountaineering equipment identical to that used on the Everest climb. Tickets can be purchased by contacting the following persons: Bill Berggren, Carl Bowin, Richard Dimmock, Dick Haedrich, Jan Hahn, Charley Hollister, Peter Kallio, Joh Leiby, Frank Mannheim, Skip Marquet, Dick Paine, Jake Peirson, Joe Phillips, Chuck Remsen, Paul Smith, Tom Stetson, Jerry Sullivan, or Doug Webb.

MISSING EQUIPMENT

Anyone having knowledge of the location of the equipment described below is requested to contact the Property Office, Ext. 279/380:

Adding Machine, Hand Operated. Monroe, S/N M33077D, Mod. No. 811H14, WHOI 67-410.

From *Atlantis II*. Chelsea 6" Brass, Bell Ships Clock. S/N 649824.

INSTITUTION EMPLOYEES SPEAK ON WOODS HOLE

Jan Hahn lectured on oceanography at Pittsfield, Mass., to the Pittsfield Garden Club. About 150 people were present. On January 15, he will speak to the American Ophthalmology Society at the Museum of Science in Boston. Later in the month is scheduled a talk at Miss Hall's School in Pittsfield. On December 31, Jan spoke to the Chamber of Commerce on Nantucket.

Captain Harry Seibert spoke at the Social Harmony Lodge on November 24 on their fishing trip from Puerto Rico. On January 6, Capt. Seibert will be speaking at the Bourne Sportsman Club on "Tall Ships--Operation Sail."

Dr. David Menzel presented three lectures to the Graduate School of Lehigh University on December 18. His topic was "Organic Matter in Sea Water."

Thomas Sutcliffe spoke on the Institution at the November 18 meeting of the Daughters of the American Revolution in Braintree.

Bob Frazel spoke to the Hyannis Rotary on December 12.

John Schilling spoke to the Pembroke JayCees and the New Bedford Kiwanis Club on December 10, the Martha's Vineyard Masonic Lodge on December 3, the Braintree Men's Club on December 4, and on December 13 traveled to Kettering, Maine, to present a program at the Regional Academic Marine Program to 250 junior high school students.

Walt Nichols showed "Alvin Junior" to the Westport Grange on Friday, January 3.

LORAN C DEMONSTRATION PLANNED

A demonstration of the newly designed LORAN C receiver made by LFE is tentatively planned for Institution staff members. This small and relatively inexpensive receiver contains automatic search, automatic tracking and phase locking features. Interested personnel are asked to contact Eli Katz, Ext. 268.

The first leg of this cruise, from Gibraltar to Toulon, will be headed by Dr. Henry Stommel. Their studies will be concerned with the formation of the deep water layers of the Mediterranean. They will use the standard hydrostations, S.T.D. instruments, and Art Voorhis's vertical current meter.

Rocky Miller and crew will take over the ship at Toulon and stay aboard until they reach Naples a month later. A concentrated effort of ships, aircraft and buoys is planned to observe the environment during the thirty days. They will observe the flow of the surface waters into the deep layers and study the active sinking process.

The C-54Q will make flights to take meteorological measurements simultaneously with the ships. It will be used for B.T. measurements, infrared sea temperature measurements, and measurements of accumulated heat and water vapor in the lower layer of the atmosphere.

Dr. John Hunt will assume the duties of chief scientist in Naples to continue into the Black Sea where an interdisciplinary research venture is taking place for the next two months. There will be three principal areas of research:

1. A study of the boundary of reducing and oxidizing environments in sea water and sediments and the implications these environments have on the microbiological population.
2. A detailed investigation of the tectonics, particularly along the Turkish coast--an area which is known to have been hit by earthquakes sporadically.
3. A study of the past history of the Black Sea.

The ship will be turned over to Dr. Richard Backus upon arrival at Rhodes. At this time, the work will continue but with different methods. Sound scattering measurements and mid-water trails will be conducted in the western Mediterranean and eastern Atlantic regions up to Ponta Delgada. During this time, Dr. John Teal will

set several long-line stations. Dr. Vaughn T. Bowen will be taking hydrostations and large volume water samples. Coring stations and plankton tows will be done to complete the scientific program of this section of the cruise.

Upon arriving in Ponta Delgada the ship will be turned over to Dr. Bowen as chief scientist. On this last leg of the cruise, Dr. Bowen's schedule calls for the continuation of hydro and large volume water stations, coring, and plankton tows. The ship is scheduled to return to Woods Hole in mid-July.

See back cover for cruise track of Legs I and II in the Black Sea.