



# MANAGEMENT SYSTEM MANUAL

## 7.9.1 SHIPBOARD SCIENCE OPERATIONS

Originator:

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Approved By:

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### 1. Purpose

The purpose of this procedure is to establish general guidelines for safe Shipboard Science Operations on board WHOI vessels.

### 2. Scope

This procedure is applicable to all personnel aboard all WHOI vessels.

### 3. Responsibility

Afloat, the Master has the ultimate responsibility for safety. In the case of Science Operations at sea, the Chief Scientist shares in this responsibility. Ashore, the Ship Operations Group and the Marine Operations Coordinator are responsible to provide the Master with information and support to insure safe operations.

### 4. General:

General Institution Safety policies are set out in the references listed below. These policies are in force aboard all WHOI ships unless a specific procedure is exempted.

- Laboratory Safety Manual
- Isotope Safety Manual

These two references assign responsibility clearly to the Chief Scientist or Principal Investigator. On cruises with multiple PI's, the Chief Scientist is expected to coordinate all science operations from a safety perspective.

*Note: Scientists should be aware that there are other policies within this manual that apply to them. Please see the Masters for information concerning other pertinent policies.*

A safety briefing or orientation shall be conducted immediately prior to sailing or within a few hours of sailing for all the embarked scientists. This briefing shall include the following elements, which are taken from the UNOLS Safety Training Manual:

- A. An introduction to safety at sea - The hazards of a moving platform
- B. Watertight integrity
- C. Fire prevention
- D. Emergency response – man overboard, fire, abandon ship
- E. Life jackets & Immersion (survival) suits
- F. Reminders of requirements for Personal Protective Equipment
- G. Shipboard drills
- H. General deck safety



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### I. Shipboard health and sanitation

This orientation shall be conducted by one of the ship's officers. Attendance will be recorded.

A successful and safe cruise depends upon accurate, open and frequent communications between the Master and the Chief Scientist and among the science party and the crew.

#### 5. Reporting

A record that the safety orientation was conducted shall be entered in the ship's log. The ship's log remains onboard the vessel.