

# SAFETY MANAGEMENT MANUAL



## 7.9.1 SHIPBOARD SCIENCE OPERATIONS

Originator:	Approved By:
Chris Grech/A. McKee	Steve Etchemendy

### 1. Purpose

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

### 2. Scope

This procedure is applicable to all personnel aboard all MBARI ISM regulated 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. The Marine Operations Group is responsible to provide the Master with information and support to insure safe operations.

### 4. General:

On cruises with multiple PI's, the Chief Scientist is expected to coordinate all science operations from a safety perspective.

Deck operations – Scientists shall wear safety shoes and life vest when working on the back deck. Hardhats are required when work involves crane or wire operations. Additionally, they need to receive authorization to work in this area, and inform the bridge when working without ships crew present.

Chemicals and other Hazardous Materials – Chief Scientist is responsible for bringing SDS sheets for chemicals brought onboard. The vessel lab areas may have only the most basic spill kits. Therefore, the Chief Scientist is responsible for providing neutralizing agents and appropriate spill mitigation kits to support use of their chemicals or other hazardous materials. Scientist should endeavour to only take small as practical quantities onboard the vessel to lessen the risk of significant spills.

Discharge of chemical waste- All hazardous wastes shall be disposed of in accordance with applicable laws and regulations.

A safety briefing will occur for all new scientists participating on MBARI research vessels regulated by ISM. A safety briefing or orientation shall be conducted prior to sailing or within 24 hours of sailing for all newly embarked scientists. This orientation shall be conducted by one of the ship's officers. All science personnel will be present.

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.