



BASIC INFORMATION ON PROTECTION AND SAFETY FOR PARTICIPANTS IN EDUCATIONAL/RESEARCH ACTIVITIES ON BOARD THE ACTEA RESEARCH VESSEL

— This information booklet was prepared under D. Lgs. 81 of 9 April 2008 (and subsequent modifications and additions) for basic information of participants in teaching/research activities and for guests, regarding behaviour to be held during the course of activities and/or during navigation, on board the ACTEA Research Vessel, for their own and for others.

As it is not possible to recall here all possible operational safety standards for activities at sea, for all not explicitly mentioned, it is recommended to refer constantly to the Captain, the Chief Scientist and, when applicable, to the "Safety Manual" of the Department of Life and Environment Sciences.

Please note that non-compliance with safety standards entails, in addition to legal sanctions, the adoption of disciplinary measures against non-compliance and the possible loss of insurance coverage in the event of an accident.

First of all, pay close attention to the fact that the work is done at sea and therefore it is necessary to distinguish two aspects of safety:

1. the one arising from the dangers of the work done;
2. the one associated with the fact that such work is carried out on board a boat.

It is important to always remember the following.

The *Driver*, as *Captain*, is responsible for the nautical aspect of the safety of the people on board and the nautical vehicle and has the authority to decide unquestionably what to do. In this sense, its authority on board is the maximum and is also superior to that of the Chief Scientist. Particularly in the event of danger, his decisions should not be discussed until eventually later, when he will have to take full responsibility for the consequences of his actions.

The *Chief Scientist* is the responsible for running oceanographic campaigns. On board the vessel, he provides the Captain with the program of pre-planned activities to be carried out in accordance with

the safety of navigation; he/she provides the information necessary to reach the sampling stations and the operational methods to follow. He/She assign each participant the tasks to be performed and ensure the quality of the data and samples collected. The Chief Scientist (i) will take prevention and protection measures before risky activities are initiated, (ii) will ensure on the proper application of risk prevention and protection measures and (iii) will provide appropriate training and information on the behavior to be kept on board.

The *Dive Master* is responsible for the operational phase of diving activity. He is a diving operator, identified among teachers and technicians by the Teacher responsible for the scientific diving activity. He/She must participate to the scuba diving, covering the role of Underwater Scientific Operator and representing the actual Safety Officer for that specific activity.

General rules of conduct to keep on board

1. Introduce yourself or be introduced to the Captain.
2. Climb on board only after express authorization, also necessary to leave the boat, come ashore or dive into the water.
3. Report, before the starting of activities, any incompatibilities related to the experience that you have to face with (substances, techniques, instrumentation, seasickness, not being able to swim etc.).
4. Wear clothing suitable for the activity that you do. It is recommended using closed footwear and avoid high heels, "flip-flops" etc.
5. Avoid leaning recklessly from the boat, especially when sailing at a sustained speed.
6. Do not open portholes while sailing.
7. Do not operate any levers for opening or closing any valve in the vessel; no electrical panel or control switch should be tapped, nor any navigation instrumentation key.
8. Smoking is forbidden.
9. Avoid carrying metal, magnetic or otherwise dangerous objects and inadvertently resting them where it happens.
10. Wear the life jacket when:
 - the Captain decides it
 - it is required by the specific operating procedure
 - you feel bad
 - you are in adverse weather conditions
 - you need to work at night
 - in any case of an emergency

In order to ensure the safe management of research activities on board the vessel, the following specific rules must be followed:

1. Observe the operational safety standards used in the most common research laboratories and strictly comply with the provisions of the Head of Public Service, for collective and individual protection.
2. Keep workspaces clean and tidy, and do not introduce substances and objects unrelated to shipping activities.
3. Always make use, if any, of the appropriate individual protective devices (DPI) for each level of risk (gloves, glasses, masks, boots, etc.).
4. For your own safety, do not keep scissors, glass tubes or sharp, pointed, or blunt material in your pocket.
5. Before using any device, you must be aware of the relevant procedures to be followed.
6. Refrain from performing maneuvers for which you have not been authorized and properly trained, and which can compromise the safety of your own and others.
7. Before using any chemical, acquire information about its characteristics through its "safety data sheet" and follow the instructions for handling, storage, and disposal.
8. Keep any dangerous agents in the appropriate containers.
9. Never leave devices running unchecked.
10. Collect, separate, and correctly eliminate chemical, biological, solid, and liquid waste. It is forbidden to dump waste at sea.
11. Immediately report to the Captain or the Chief Scientist any malfunctions of equipment, engines, instruments or IPR present on board and to be aware of, working directly, within your competence, to eliminate or reduce such deficiencies or dangers.

For all not explicitly mentioned, refer to the Captain, the Chief Scientist and to the "Security Manual" of the Department of Life and Environment Sciences.

The Coordinator of the Research Vessel

Prof. Cecilia Maria Totti

The Director of the Department

Prof. Francesco Regoli