ARCHIMEDE

A new software for management of geological and biological samples

In the aim of managing marine geological and biological samples and related analyses in an unique system, IFREMER has designed a new database: Biology and Geology Ocean Database (BIGOOD) and has developed new software: SEALOG (on board) and ARCHIMEDE (on land). The main objectives of this project are:

- improve archiving and maintenance of marine samples collected during oceanographic cruises;
- make accessible the available information (samples and related analyses) to the scientific community;
- rationally and optimise the logistic for cruise preparation for the French and international community.

Casino+/Mimosa/Adelie
Recording of surface and submarine operations

SEALOG software
Recording and reporting measurements and samples from cruises, dives and moorings operated by biologists and geologists

ARCHIMEDE software
Graphical user interface connected to the BIGOOD database, used in the lab
- Metadata and data updates on operations, dives, samples
- Management of sample physical locations using 3D plans of the repository (1)
- Generation of labels including QR code and bar code (2)
- Track of movements (transfers, loans...)
- Visual display and query
- Metadata import and export

Web Access
- French oceanographic cruises (2): http://campagnes.flotteoceanographique.fr/
- Using GIS software (3):
  - WMS http://www.ifremer.fr/services/wms/sismer
  - WFS http://www.ifremer.fr/services/wfs/sismer
- Dedicated website « ARCHIMEDE Web » soon available

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