Modernisation of Atalante R/V

- Shipyard contract signature: April 2008
- Studies: April-December 2008
- Delivery to shipyard: Nov. 7th, 2008
- Delivery to Ifremer: April 19th, 2009
- Sea trials: Mai 20th to July 14th, 2009
- First cruise: 2 août 2009
REPLACEMENT OF SCIENTIFIC EQUIPMENT

- SIMRAD EM722-710
- SIMRAD ER60
- Sub Bottom Profiler IXSEA
- ADCP RDI
- Pinger SEPIA
REPLACEMENT OF ALL HARDWARE and SOFTWARE

IT environment  Installation of VSAT  Giga Ethernet network

Video and data streaming (KVM matrix)

Softwares
Scientific room
Control and acquisition
GENERAL MAINTENANCE

- Mechanical repairs and maintenance
- Painting
- Accommodation
- Replacement of systems: Davits, VAC, propulsion regulation, energy management, …
Modernisation of Victor 6000

➢ Operational objective
  ▪ 2 operators for control (3 actually)

➢ Technical objectives
  ▪ Replacement of « informatics »
  ▪ HD for main and vertical video
  ▪ New transmission system
  ▪ Dead reckoning with PHINS sensor
  ▪ Weight balance revision

➢ Schedule
  ▪ Development : May – Sept. 2009
  ▪ On land tests without vehicle : Sept. to Dec 2009
  ▪ On land and pool tests : Jan to March 2010
  ▪ Sea trials : July 2010
HARWARE AND SOFTWARE

All is replaced: Equipment and software

- Real time control
- Preparation and dive management
- Video and data management
- Scientific equipment management
Up-grade of the Suroit R/V Multibeam Echo Sounder

- Upgrade of EM300 to EM302
- Installation conducted in October 2009
- Very good result in sea water column detection
- Bathymetry performances to improve

Gaz bubble plume in marmara sea – November 2009
Haliotis launched for operational use in May 2008

➢ Requirement

• Near shore habitat mapping
• Shallow water survey for geology
HALIOTIS SPECIFICATIONS

- Length: 10,3 m
- Weight: 4,6 t
- Draft: 0,8 m
- V max = 18 nds
- Crew: 2
- Scientist: 1 (+ 1)

- Geoacoustics Geoswath sonar - 250 kHz
- SIMRAD ER60 120kHz
- Sub bottom Profiler - 1,8 à 5,3 kHz
Research of « Back boxes » of AF 447 flight in Atlantic océan by 4000m depth

- Cruise in July – August 2009 financed by BEA
- Research with acoustic equipment: RESON MES in passive mode, towed pinger
- Underwater vehicles support ship capability

Pourquoi pas? underwater vehicle clearly demonstrated