



OFEG Major Marine Equipment Pool

www.nioz.nl/ofeg

Marck G. Smit



OFEG Major Marine Equipment Pool

OFEG april 2006: “Can we create a webpage” in order to:

- Optimize to use of Major Marine Equipment at an European level
- Improve the exchange
- Demonstrate it easily to potential users
- Create an overview



OFEG Major Marine Equipment Pool

Which equipment?

- Very unique,
- Complicated or
- Expensive

First set up:

- Simple: possibilities and main spec's at a glance, "www.nioz.nl/pool"- alike
- Use of links to existing equipment-pages if possible
- www.nioz.nl/ofeg --> link will be created on OFEG-pages
(<http://www.nerc.ac.uk/research/sites/facilities/marine/ofeg.asp>)
- Moving to www.ofeg.org is planned



OFEG Major Marine Equipment Pool

Home - Research Facilities

Sitemap - Search

Research

General

Education

Research Facilities

- Research Vessels
- Marine Technology
- Pool Equipment
- Data Management
- Cruise Plan 2006
- Cruise Plan 2005
- Checklist & Forms
- Links
- Cruise Plan

Job opportunities

OFEG Major Marine Equipment

In order to optimize the use of Major Marine Equipment at an European level in general, and within the Ocean Facilities Exchange Group ([OFEG](#)) and its associates especially, an overview has been created to show and explain this equipment. The Marine Research Equipment we are aiming on is very unique, complicated or expensive. In this overview we will try to demonstrate the potential users the possibilities and main specifications of this equipment in a glance. When links are available to more extensive overviews of marine equipment of National Marine Research Institutes we will provide these.

The following Major Equipment is available at the following institutes:

[CSIC, National Council for Scientific Research, Spain](#)

Contact: [Juan José Dañobeitia](#)

- [Swordfish ROV](#)

[Germany, Several German Institutes for Marine Sciences](#)

Contact: [Thomas Mueller](#)

- [Quest 4000 ROV](#)
- [Cherokee 1000 ROV](#)
- [Kiel 6000 ROV](#)
- [JAGO SUB 400](#)
- [Explorer AUV](#)
- [MEBO sea floor drill rig](#)

[IFREMER, French Research Institute for Exploitation of the Sea, France](#)

Contact: [Jean-Xavier Castrec](#)

- [Victor ROV](#)
- [AsterX AUV](#)
- [Nautilie SUB](#)
- Giant Piston Corer (Kley France)
- [SAR towed acoustic system](#)

[IMR, Institute of Marine Research, Norway](#)

- [Cherokee 1000 ROV](#)
- [Kiel 6000 ROV](#)
- [JAGO SUB 400](#)
- [Explorer AUV](#)
- [MEBO sea floor drill rig](#)

[IFREMER, French Research Institute for Exploitation of the Sea, France](#)

Contact: [Jean-Xavier Castrec](#)

- [Victor ROV](#)
- [AsterX AUV](#)
- [Nautille SUB](#)
- [Giant Piston Corer \(Kley France\)](#)
- [SAR towed acoustic system](#)

[IMR, Institute of Marine Research, Norway](#)

Contact: [Kaare Hansen](#)

- [Aglantha ROV](#)
- [Giant Piston Corer \(Kley France\)](#),
- [Towed Body with EK 60 echosounder](#)
- [MESSOR: towed Optical Plankton Counter and Plankton Net](#)

[NERC Research Ship Unit, United Kingdom](#)

Contact: [Colin Day](#)

- [ISIS ROV System](#)
- [TOBI Towed Vehicle](#)
- [BRIDGET Towed Sensor Platform](#)
- [SHRIMP vertical camera system](#)
- [Autosub, mark III AUV](#)
- [Other National Marine Pool Equipment](#)

[NIOZ, Royal Netherlands Institute for Sea Research, The Netherlands](#)

Contact: [Marck Smit](#)

- [Deep Sea Winch \(Kley France\)](#)
 - [Ultra Clean CTD System](#)
 - [High Pressure Sampler](#)
 - [MOVE crawler](#)
 - [Lab Containers & other NIOZ-MRF equipment](#)
-



- Research Vessels
- Marine Technology
- Pool Equipment
- Data Management
- Cruise Plan 2006
- Cruise Plan 2005
- Checklist & Forms
- Links
- Cruise Plan

DEEP-SEA WINCH (Kley France)

Goal Kevlar cabled traction winch for deep-sea work up to 8000 m

Specification

Cable diameter: Dn 17.7 mm
Breaking strength: 16.000 kg
Maximum load: 9.000 kg
Cable conductors (copper): 7 x 0.25 mm²
Weight: 17 T winch; 5 T hydraulic powerpack
Options: dredging mode and yo-yo mode

Remarks Special assistance is needed

Reservation/contact [Jack Schilling](#)



Ultra Clean CTD

Goal	<p>To achieve contamination free seawater sampling and sub sampling in order to measure low concentrations of trace metals in seawater. For this reason were developed:</p> <ul style="list-style-type: none">• A full titanium Ultra Clean CTD-frame• A Ultra Clean Container for sub-sampling• A clean transportation system to the Clean Container <p>Works normally in combination with the NIOZ Kevlar Cable Winch and GO-FLO CTD-bottles.</p>
-------------	---

Specification	<ul style="list-style-type: none">• Full titanium Ultra Clean frame• Weight: 1200 kg (bottles filled)• Dimensions: L x W x H 2480 x 700 x 1800 mm• 24 x 12 ltr GO-FLO bottles• Optional: 4 x 30 ltr. GO-FLO bottles• Integrated clean deck transportation system
----------------------	---

Remarks	
----------------	--

Reservation/contact	Sven Ober
----------------------------	---------------------------

Additional Info	UCC
------------------------	---------------------





[NOCS home](#)

[About NOCS](#)

[News & events](#)

[Research](#)

[Education](#)

[Schools & public](#)

[National Marine
Facilities](#)

[Commercial](#)

[Data](#)

[Library & Information](#)

[Policy & coordination](#)

[Project offices](#)

[Job vacancies](#)

National Marine Facilities - Sea Systems

The ISIS pages are currently being redeveloped : for further details please contact NMF directly

Success for Isis

Scientists have returned to the National Oceanography Centre, Southampton (NOCS) after completing a successful expedition for *Isis*, the £4.5million submersible vessel which explored the seabed around the Marguerite Bay area on the west side of the Antarctic Peninsula.

Isis made 15 separate dives during its three-week expedition, diving to depths of 3,500 metres (around two miles) to map shallow waters in Marguerite Bay, the continental shelf edge and the deep continental slope.

The ROV (remotely operated vehicle) captured superb images of a diverse array of sea life across an area of the sea bed. Highlights included seven blue dumbo octopuses, as well as umbrella, king crabs, sponges and anemones.

The expedition, carried out from the Royal Research Ship *James Clark Ross*, also provided an opportunity to look at geological features, such as 100-metre deep meltwater channels, associated with the advance and retreat of glaciers.

A better understanding of the relationship between glaciers and the ground on which they lie helps predict the speed at which glaciers might advance and retreat in the future in response to climate change.

The cruise is the first time that *Isis* has been used "in anger" to carry out scientific research and the first time a deep water ROV has been used in the Antarctic.

As Dr Chris Hauton of NOCS writes in the cruise diary: "Without doubt *Isis* is an excellent facility and a huge asset to the marine scientific community and, on the basis of what we have achieved ... there is every expectation that *Isis* will serve the community well."

Read the cruise diaries of the mission in the [Classroom@Sea Project](#)

Isis will next be sent to investigate the deep-sea floor off the Portuguese coast.





Ifremer
Fleet

Up

Aster x

The coastal AUV programme:

Scientific survey down to 3000 m depth with medium size autonomous vehicles.



© Ifremer

Aster^x key figures:

- depth rating 3000 m
- length 4,5 m
- total weight in air 793 kg including 200 kg payload displacement
- autonomy 100 km max
- speed up to 5 knt
- optimized mono-hull design
- 4 air transport LD3 containers

Payload flexibility:

- side scan sonar
- multibeam echo sounder
- sub bottom profiler
- CTD
- ADCP
- fishery sounder
- water sampling ...

Integrated navigation:

- long range acoustic telemetry
- inertial Doppler dead reckoning
- inverse USBL navigation



→ Outils

Search on fleet site

-  Map
-  Contacts
-  Version française
-  All Ifremer websites
-  Print

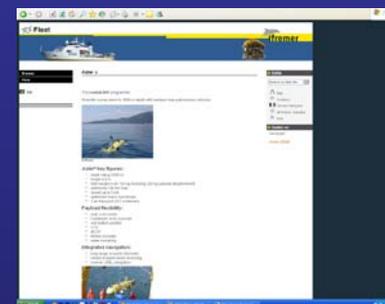
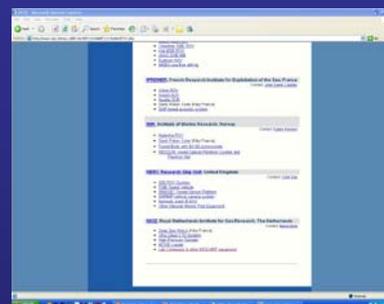
→ Update on

15/10/2007

Ifremer ©2006



OFEG Major Marine Equipment Pool



Questions,
suggestions,
Remarks?