Research Ship Activities and New Equipment Acquired

Arturo Castellon & Juanjo Dañobeitia
http://www.utm.csic.es/

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Ocean Facilities Exchange Group

*a bottom-up approach towards research fleet co-ordination and harmonisation*

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**R/V García del Cid**

2010

94 cruise days

JAGO operations: 27 days
2011
120 cruise days planned
New CTD cable
New Traction cable: certifications
B/O Novo As
Trawler 1997 to be transformed

- 32 m O.L.
- 293 Ton GT
- 359 kW
R/V Sarmiento de Gamboa

2010
First seismic cruises : 80 days

New air guns frame developed by UTM
R/V Sarmiento de Gamboa

2010

• IEO ROV Testing (2000 m)
• Install. one compressor aboard
R/V Sarmiento de Gamboa

2011 Planned cruises

Seismics
Pelagic fishing
ROV
Bottom sampling
Chartering
EEZ program
Total: 310 days
R/V Sarmiento de Gamboa

2011 CHARTERING
Two basic prices: Academic and Private.
Roughly 22000 euros per day (basics) and 25000 euros per day.
Adding scenario extras.
How to proceed in academic chartering (internal and external)

Some figures...
<table>
<thead>
<tr>
<th>Ship</th>
<th>Seismics</th>
<th>Echosounders</th>
<th>OBS</th>
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<tbody>
<tr>
<td>25000 €</td>
<td>9356 €</td>
<td>3637 €</td>
<td>28200 €</td>
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R/V Hesperides

2010
Antarctic cruise
Total 130 cruise days
R/V Hespérides

2011 Planned cruise

During 2011 Malaspina project will use about 50% of ship time in circumnavigation.
New equipment

AUV

- Autonomy: 8 hrs@ 2.5 knots
- Standard depth rating 100 m.
- Extended Payload (2nd CPU + extra HHDD + external ports + API)
- Safety tow float.

Water Quality [WQ] Vehicle:

- DVL + ADCP (10 beams).
- W.Q. multiparameter sonde (CTD, Turbidity, Chlorophyl, DO, pH, ORP)
- Extended Depth rating to 200 m.

Camera [CAM] Vehicle:

- DVL + ADCP (6 beams), Wifi
- Still+video cameras.
- Sidescan (330 / 800 kHz).
New equipment  HYDROBIOS Multinet 1 m²
Heavy equipment as containers, compressors, winches etc, need of space, workshops, cranes, power lines, etc for maintenance, storage and upgrade.

UTM facilities in Porriño -1114 m² –width 2 x 16 tons overhead cranes (FEDER Funds) were designed from the beginning for providing these aspects.

In the future a generator (700 kW) is needed for testing compressors etc. Also a forklift and a truck are needed.
UTM facilities in Porriño (Galicia)