

GOBIERNO DE ESPAÑA MINISTERIO DE CIENCIA E INNOVACIÓN

Marine Technology Unit Spanish Research Council

CSIC

12th ERVO Meeting, Southampton, 4-6 May 2010

CSIC Marine Technology Unit Oceanographic Research Fleet Spanish activities on 2009

By Arturo Castellón

UTM Unidad Técnica Marítima

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R/V Hesperides; 1991 82,5 m





R/V Sarmiento de Gamboa, 2007, 70,5 m

R/V Garcia del Cid, 1977, 37 m

S/V Las Palmas, 1978, 41,2 m, Supplier



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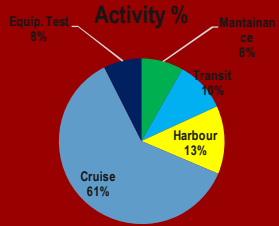
R/V Sarmiento de Gamboa

Type	LOA(m)	Built	2009 Op. Days
Oceanic	70,5	2007	308



CRUISE	days	type	Geog
FAMOSO 1	16	Marine Biology (Planct)	Gulf of Lion
FAMOSO 3	9	Marine Biology (Planct)	Gulf of Lion
FAMOSO 1	18	Marine Biology (Planct)	Gulf of Lion
BIOFUN	31	Deep Sea Bott. Sampling	Medit.
XUNTA 2	30	Deep Sea Bott. Sampling	NW Spain
FORCLIM	20	Marine Biology (Planct)	N-NW Spain
CAIBEX	65	Marine Biology (Planct)	Atlantic
IDEADOS 1209	17	Pelag. Fisheries & Plancton	Mallorca I.
Fishing	7	Equip. Testing	NE Spain Catalan Coast
Multibeam	20	Equip. Testing	San Vicente Cape
OBSEA	3	Underwater Observatory	Coast
GEOSTAR-ESONET*	7	Underwater Observatory	San Vicente Cape
XUNTA 1	16	Students	NW Spain

Bartering





Activity %

- Equip. Test 8%
- Maintenance 8%
- Transit 10%
- Harbour 13%
- Cruise 61%

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R/V Sarmiento de Gamboa



2009 Cruise Track






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R/V Sarmiento de Gamboa

Observatories
GEOSTAR-ESONET






INGV, ISMAR-CNR, Technomare (Italy)
TUB, TFH, Brin, Germany
UTM.CSIC, Spain

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Observatories
OBSEA








UTM.CSIC
Sarti, UPC, Barcelona, Spain




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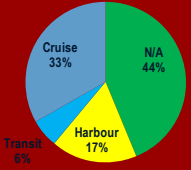
R/V García del Cid

Type	LOA(m)	Built	2009 Op. Days
Regional	37	1977	205



CRUISE	days	type	Geog
DEEP-CORAL	4	Deep Corals	Creus Cape
PROMETEO 2	8	Deep Bottom. Sampling	Catalan Coast
BIOFUN	3	Deep Bottom. Sampling	Catalan Coast
Multibeam	1	Sub.Observ.	Catalan Coast
CASCADES	5	Geology Sediment transport	Columbretes Is.
PROMETEO 3	9	Deep Bott. Sampling	Catalan Coast
COMSOM	32	Shallow Bottom Sampling	MED, Italy, Greece,Spain
MED. Outflow	12	Oceanography/ Biol	Gulf of Cadiz
PROMETEO 4	11	Deep Bott. Sampling	Catalan Coast
OAMMS 2	2	Ocean. Buoy	Catalan Coast
INDEMARES	9	ROV, Deep Corals	Creus Cape
DESMON	13	Med Spanish Coast Biology	Spanish Med
PERFIL-MED	5	Med Spanish Coast Biology	Balearic Sea



Activity %



Activity	Percentage
N/A	44%
Cruise	33%
Harbour	17%
Transit	6%



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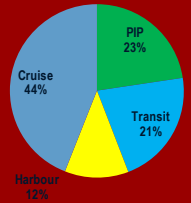
R/V Hesperides

Type	LOA(m)	Built	2009 Op. Days
Global Polar	82.5	1991	278





CRUISE	days	type	Geog
ATOS	43	Marine Biology	Antártica Pen.
HUMBOLDT*	21	Phys. Ocean. Biology	Chile
CARIBENORTE	21	Seismics/Mar. Geology	Dominic. Rep.(La Española)
EEZ	29	Bathym.	NW Spain
CTM 2007 61227	13	Seismics/Marine Geology	NW Spain
HERMES	29	Marine Geology	Spanish Mediterranean
ORCA	28	Phys. Ocean	East Atlantic
COUPLING**	4	P. Sangrá	Antarctica

Activity %





Activity	Percentage
Cruise	44%
PIP	23%
Transit	21%
Harbour	12%

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S/V Las Palmas (Spanish Navy)

Type	LOA(m)	Built	2009 Op. Days
Polar	41,2	1978	170*

- 170 days for Antarctic stations supply
- 12 Drake Passage per year



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•Equipment

New Equipment

- New Multipurpose mobile winch (traction 8000 m 13 mm)
- Seismic frame for air guns rail and umbilical winch
- Streamer winches (2 x 3 km)
- Air guns 20 Ggun II : 8 x 150 ci , 4 x 250 ci, 4x 380 ci, 4 x 520 ci
- Compressors 25 m³ / min (2008)
- Mocness plankton nets (2 x)
- Core Logger
- New lab container (2xChem))
- Workshop container
- Multicorer (2x) 6 tubes
- LADCP
- Spectroradiometer





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•New Facilities

Vigo

Close to Vigo, 1200 m² with two **overhead** cranes of 16 Tn each.

Workshop and offices.



•Cooperation

•Bartering agreement with Ifremer.

- R/V Sarmiento de Gamboa
- Cruise FORCLIM,
- Bordeaux University and others.
- Gulf of Biscay and North and North west of Iberian peninsula
- April 1st to april 20th



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