

Research Vessels operated by CSIC

2016 CRUISE ACTIVITY

R/V Sarmiento de Gamboa

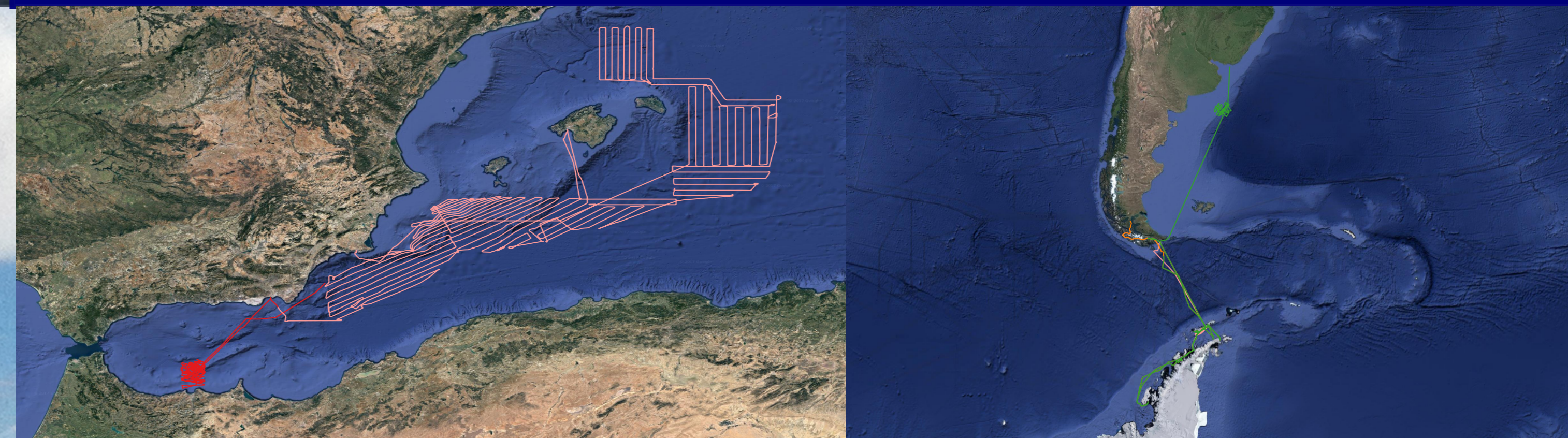


- 1.- ANTARLOG - Logistic support to Spanish Antarctic Program
- 2.- URUGUAY - EEZ study [Multibeam, SBP, Coring, Plancton sampling, CTD]
- 3.- BOCATS - Chemical Oceanography [CTD-LADCP, Lab. Equip., Drifters]
- 4.- IDRISI - Geological Hazards [OBS, Multibeam]
- 5.- MEDWAVES - Biological Oceanography [CTD-LADCP, ROV, Multicorer]
- 6.- ANTARLOG2 - Logistic support to Spanish Antarctic Program

Total days at sea: 335

2 National projects, 1 EU Project, 1 Research Charter - 2 Logistic

R/V Hespérides



- 1.- GALILEO - Hidrography [Multibeam, Magnetometer, Gravimeter, Galileo pos. testing]
- 2.- DISTANTCOM - Biological Oceanography [CTD, Diving benthos sampling]
- 3.- MIXTO - Hidrography [Multibeam, Magnetometer, SPB]
- 4.- INCRISIS - Geological Hazard [Multibeam, SBP]
- 5.- EEZ Hidrography [Multibeam, Gravimeter, Magnetometer]

Total days at sea 147 - 5 National projects

R/V García del Cid



- 1.- UB - Oceanography, students [Multibeam, Multicorer, Dredges, CTD]
- 2.- DEEP VISION - Fisheries [Multibeam, Pelagic fisheries]
- 3.- ARGON - Biological Oceanography [CTD, Sampling]
- 4.- CONECTA - Fisheries [Multibeam, Moccuss, IKMT, CTD]

Total days at sea: 79 - 3 National projects, 1 University cruises

New portable high resolution seismic

- Sparker: GeoSpark 7000 XF + GeoSource 400 Dual
- Manufacturer: GMS[®]
- Mains Power: 220-240 V AC, 50-60 Hz, 16 A
- 95 kg for PS, 95 kg for Capacitor Bank
- Dimensions: 11 x 11 x 109 x 55 x 71 cm
- High Voltage: 5600 V for real acoustic punch
- Energy Output selectable from 100 to 7000 J
- HV charging capability: 2 kJ / sec
- 1 shot every 4 sec at energy of 7000 J
- Indestructible 25 kA, 5.6 kV discharge Thyristor
- Very high d/dT, NO electrical oscillations
- Fully ground-referenced, 100% safe
- Humidity and Temperature protection
- State-of-the-art micro-processor based control and monitoring system



- Multichannel HR Digital Streamer
- Manufacturer: GEOMETRICS[®]
 - Model: GeoEEL Solid[®]
 - Hydrophones per group: 6
 - Sensitivity: 194 dB re 1 V/mPa ± 1.5 dB (22.4 V/bar) @ 20°C
 - Input Impedance: 126.8K Ohms, paralleled by 2.4 nF
 - Sample Intervals: 1/8, 1/4, 1/2, 1, 2 ms
 - Band width: 5 Hz to 3 KHz
 - Programmable gain: 0 dB, 6 dB, 18 dB, 30 dB, 42 dB
 - Record length: Up to 32,768 samples
 - Continuous recording mode: Available, with GPS synchronization
 - Group interval: 6.25 m
 - Groups per section: 8
 - Nominal section length: 50 m
 - Max. Active Section CSIC: 600 m. (12 sections, 96 channels)
 - Total length CSIC: 822 m
 - Dimensions:
 - Streamer diameter: 44.5 mm
 - Weight in air: 156 kg / 100m
 - Tow cable strain member: kevlar
 - Working load: 300 kg

