

BENTOS is a Chilean company with more than 20 years of experience providing support for the conduct of marine projects. The featured areas of BENTOS's work experience include oceanography, marine geophysics, hydrography and submarine cables (both communications and power).

During the compiling of our experience we have participated in the installation of eleventh of the sixteen submarine cables currently in operation in Chile. In the upcoming three months BENTOS will participate actively in the laying of 5 km of submarine power cables and 80 km of optical fiber cables.

I, II, VI and VII Cables:

Robinson Crusoe Island (Comprehensive Nuclear Test – Ban - Treaty Organization (CTBTO)): Approximately 80 Km of communications cable laid in two sections with 1 landing point and depths of as much as 2500 m.

III, IV, V, VIII and IX Cables:

Fibra Austral (Telefónica del Sur): Approximately 120 Km of communications cable laid in three sections with six landing points and to maximum depths of 300 m. III, IV and V cables.

Fibra Austral (Telefónica del Sur): Approximately 380 Km of communications cable laid in two sections with four landing points and to maximum depths of 300 m; 6 km of buried cables. VIII and IX cables.

BENTOS has participated in the performance of these projects starting with the design phase and continuing up through the field studies, specification of installation equipment, importation of cables and equipment, preparation of the installation vessels and, additionally, active participation in the work of installation and turnover and maintenance of the cables and equipment.

X Cable:

Saesa: Underwater power cable laying project for Huar Island (Tenth Administrative Region.).

FEATURED BENTOS WORK AREAS

Our company is prepared to undertake all tasks involved in a marine study, viz.: design of work, logistics and operations in the field, analysis of data, relations with the authorities and preparation of reports

The work areas in which BENTOS is specialized are as follow:

- **Coastal Oceanography:** Studies of currents, tides, wave climate, meteorology, dispersion, transport of sediments and numerical modeling.
- **Hydrography:** Single beam and multibeam bathymetry, topography and geodesics.
- **Geophysics:** Side scan sonar, seismicity, sub bottom profiler, chirp, boomer and magnetometry.

- **Submarine Cables:** Performance of feasibility studies, definition of optimum routing, logistics, cable laying and submarine telecommunication and power cable repair work.
- **Submarine Imaging:** ROV, video filming and photography.
- **Technical Diving:** Diving for inspection of submarine construction work and submerged structures, submarine sampling, in situ submarine testing and installation and checking of submarine instruments.
- **Environment:** Marine environmental studies.

COMPANY SUBMARINE CABLE EXPERIENCE TRACK RECORD

Logistical support, Installation of Fibra Austral II Submarine Cable. Permitting, 4 landings, 6 km of buried line section by means of Jet burial, Tenth and Eleventh Administrative Regions. **NORDDEUTSCHE SEEKABELWERKE GmbH - NSW.** 2014-2015.

Submarine exploration for the Fiber Optic Cable Route, Tenth and Eleventh Administrative Regions. **TELEFÓNICA DEL SUR. S.A.** 2014.

Professional support and logistics for the installation of Hydroacoustic Station HA03 (60 km of submarine cables to 2500m depth) for the Comprehensive Nuclear Test – Ban - Treaty Organization (a treaty signed by the Republic of Chile on 24-07-1997 and ratified on 12-07-2000). Operation of the hydroacoustic station located on Juan Fernández Island, Chile. **PREPARATORY COMMISSION FOR THE COMPREHENSIVE NUCLEAR TEST BAN TREATY ORGANIZATION (CTBTO).** 2013 - 2014.

Logistic support and administration of the submarine cable laying project to provide electric power to Isla Huar (Tenth Administrative Region). **A SAESA Project,** 2013 - 2014

Oceanographic, hydrographic (multibeam bathymetry) and marine geophysics (Side Scan Sonar and Sub Bottom Profiler) studies for the laying of the submarine cable to supply electric power to Isla Huar (Tenth Administrative Region). **A SAESA Project,** 2013.

BENTOS participated in the **Asia-Pacific Economic Cooperation (APEC) Work Meeting – Improving Connectivity: Resilience of Submarine Telecommunications Cables in the Asia-Pacific Region.** Bali, Indonesia – 15-16 October 2013.

BENTOS, acting in a consortium with the companies SESELEC (Mexico) and Offshore Marine Management (UK), were given the award of the EPC project for laying a submarine cable 5 km long to supply electric power to Isla Huar (Tenth Administrative Region). **A SAESA Project,** 2013.

Logistical support and supervision for the laying of optical fiber cables for the relocation of the onshore facilities of Hydroacoustic Station HA03 of the Comprehensive Nuclear Test Ban Treaty Organization ((a treaty signed by the Republic of Chile on 24-07-1997 and ratified on 12-07-2000)). Operating services provided for the hydroacoustic station located on Juan Fernández Island, Chile. **PREPARATORY COMMISSION FOR THE COMPREHENSIVE NUCLEAR TEST BAN TREATY ORGANIZATION (CTBTO)**, 2013.

Multibeam bathymetric and Marine sub bottom profiler survey of Bahía Cumberland, Robinson Crusoe Island, Fifth Administrative Region, Chile. **COMPREHENSIVE NUCLEAR – TEST - BAN TREATY ORGANIZATION (CTBTO)**, 2012.

Multibeam bathymetric and Marine sub bottom profiler survey of Bahía Cumberland, Robinson Crusoe Island, Fifth Administrative Region, Chile. **COMPREHENSIVE NUCLEAR – TEST - BAN TREATY ORGANIZATION (CTBTO)**, 2010-2011.

Hydrographic, geophysical, coastal topography and soil mechanics studies for the Submarine Power Cable Studies; routes in the Tenth and Eleventh Administrative Regions. **CENTRALES HIDROELÉCTRICAS DE AYSÉN S.A.**, 2009 - 2010.

Multibeam bathymetric and Marine sub bottom profiler survey of Bahía Cumberland, Robinson Crusoe Island, Fifth Administrative Region, Chile. **COMPREHENSIVE NUCLEAR – TEST - BAN TREATY ORGANIZATION (CTBTO)**, 2009.

Study of the technical feasibility of implementing a submarine optical fiber cable over a route between Puerto Chacabuco and Puerto Natales, Eleventh Administrative Region, Chile. **UNDERSECRETARIAT OF TELECOMMUNICATIONS**, 2009.

Multibeam bathymetric survey for a submarine cable route, Juan Fernández Island, Fifth Administrative Region. **L3 COMMUNICATIONS MARIPRO INC**, 2009.

Consulting services for a submarine routing study – conceptual definitions for the Aysén – SIC Grid HVDC transmission system. **CENTRALES HIDROELÉCTRICAS DE AYSÉN S.A.**, 2008.

Installation of 120 km of submarine optical fiber cable, Austral Cable Project of Telefónica del Sur, Chacao Channel, Queilen - Chaitén Puyuhuapi – Puerto Cisnes routes (Tenth and Eleventh Administrative Regions, Chile). **NORDDEUTSCHE SEEKABELWERKE GMBH & CO. KG. SUBMARINE CABLE SYSTEMS**, 2007.

Multibeam bathymetry, Austral Cable route of Telefónica del Sur, Chacao Channel, Queilen - Chaitén Puyuhuapi – Puerto Cisnes routes (Tenth and Eleventh Administrative Regions, Chile). **NORDDEUTSCHE SEEKABELWERKE GMBH & CO. KG. SUBMARINE CABLE SYSTEMS**. 2007.



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Hydroacoustic Station HA03 of the Comprehensive Nuclear Test – Ban - Treaty Organization (a treaty signed by the Republic of Chile on 24-07-1997 and ratified on 12-07-2000). Operating services provided for the hydroacoustic station located on Juan Fernández Island, Chile. **PREPARATORY COMMISSION FOR THE COMPREHENSIVE NUCLEAR TEST BAN TREATY ORGANIZATION (CTBTO), 2003 – 2010.**

Professional support and logistics for the installation of Hydroacoustic Station HA03 (60 km of submarine cables to 2500m depth) for the Comprehensive Nuclear Test – Ban - Treaty Organization (a treaty signed by the Republic of Chile on 24-07-1997 and ratified on 12-07-2000). Operation of the hydroacoustic station located on Juan Fernández Island, Chile. **PREPARATORY COMMISSION FOR THE COMPREHENSIVE NUCLEAR TEST BAN TREATY ORGANIZATION (CTBTO).** Operation services for the hydroacoustic station located on Juan Fernández Island, Chile. **PREPARATORY COMMISSION FOR THE COMPREHENSIVE NUCLEAR TEST BAN TREATY ORGANIZATION (CTBTO), 2002.**

Study for the location of submarine hydrophones and submarine data transfer cables. United Nations Comprehensive Nuclear Test – Ban - Treaty. Robinson Crusoe Island, Fifth Administrative Region, Chile. **SCIENCE APPLICATIONS INTERNATIONAL CORPORATION INC, 2001.**

COMPANY DATA

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