

**INTERNATIONAL HYDROGRAPHIC ORGANIZATION  
HYDROGRAPHIC COMMISSION ON ANTARCTICA  
9TH MEETING – SIMON'S TOWN, CAPE TOWN, SOUTH AFRICA  
OCTOBER 12 - 14, 2009.**

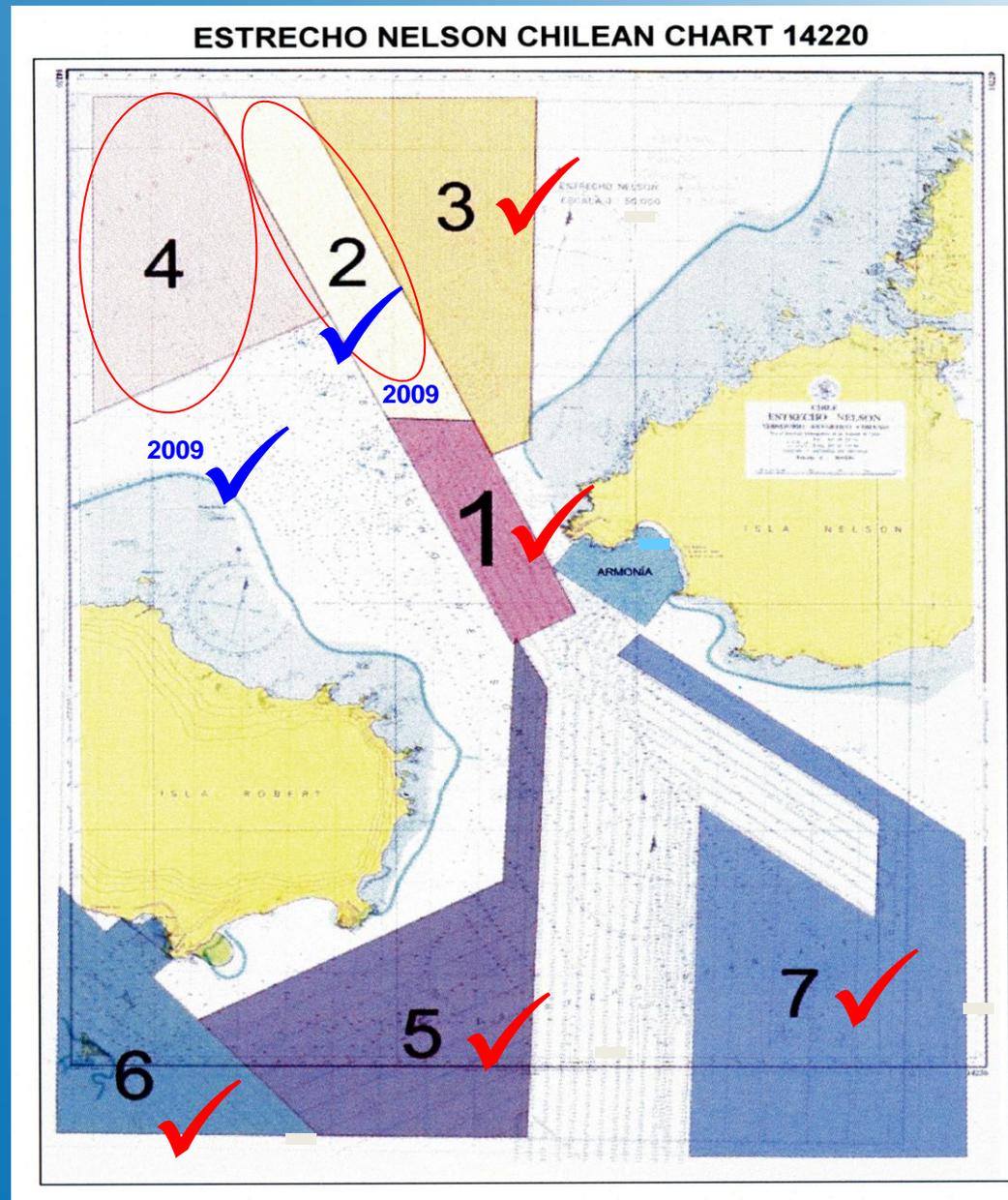


**NATIONAL REPORT PREPARED BY THE CHILEAN NAVY  
HYDROGRAPHIC AND OCEANOGRAPHIC SERVICE  
(SHOA)**



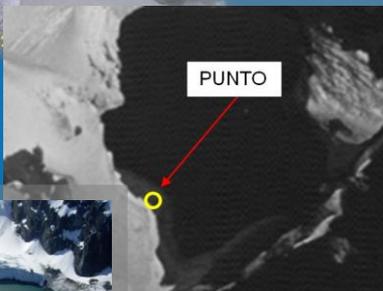
## Hydrographic Activities Summer 2009

1. During the summer 2009 SHOA accomplished a hydrographic survey on Nelson Straight area. This activity was the last campaign of four stages planned to complete the data acquisition for publishing SHOA Chart No. 14220 “Estrecho Nelson”.



# Hydrographic Activities Summer 2009

## Field Sheet of SHOA Chart No. 14220 "Estrecho Nelson"



Chilean Hydrographic Surveys Vessels  
used to obtain bathymetry for  
producing SHOA Chart No. 14220  
"Estrecho Nelson"

- Ice Breaker "Oscar Viel".
- Auxiliary Fleet Tug "Lautaro".
- All of the surveys were carried out using single beam technology (Knudsen 320 MP and Elac 4300 echo sounder).



CHILEAN NAVY  
AFT "LAUTARO"



## The Chilean Hydro-Cartographic Activity Program for Antarctica for 2010 - 2019.

INT Chart No.	Scale	Years of the Suveys
9104	1:50.000	2010 -2011 - 2012
9103	1:50.000	2013 - 2014
9151	1:200.000	2015 - 2016
9157	1:150.000	2017 - 2018 - 2019





# Nautical Charts and Publications Updates

## New Charts & updates

In December 2009 SHOA will release the National Nautical Chart No.14220 “Estrecho Nelson”.

During 2009 the following ENC Antarctic INT Charts were updated:

- CL3MA 800 “Rada Covadonga a Isla Trinidad”. Second Edition.
- CL5MA 890 “Rada Covadonga y Accesos”. Second Edition.





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## New Publications & updates

SHOA currently is updating Sailing Directions for the Antarctic Territory. “Derrotero Antártico”, Vol. VI.

SHOA sent to the BHI the Publication No. 3035 “General Instructions for Pilotage in the Water Ways of the Chilean Antarctic Territory”. This publication can be read in both languages (English and Spanish).



S.H.O.A. Pub. 3035

INSTRUCCIONES GENERALES DE  
PILOTAJE EN LAS AGUAS DEL  
TERRITORIO CHILENO ANTARTICO

GENERAL INSTRUCTIONS FOR PILOTAGE  
IN THE WATERWAYS OF THE CHILEAN  
ANTARCTIC TERRITORY



SERVICIO HIDROGRAFICO Y OCEANOGRAFICO DE LA  
ARMADA DE CHILE



## Capacity Building

Antarctic Training for Graduated Students of the Hydrographic Course Cat. "A".



Graduate Students from the International Hydrography Course Cat "A": Lt Bencomo (Venezuela); Lt Sheets (USA) and Lt Rojas (Guatemala)



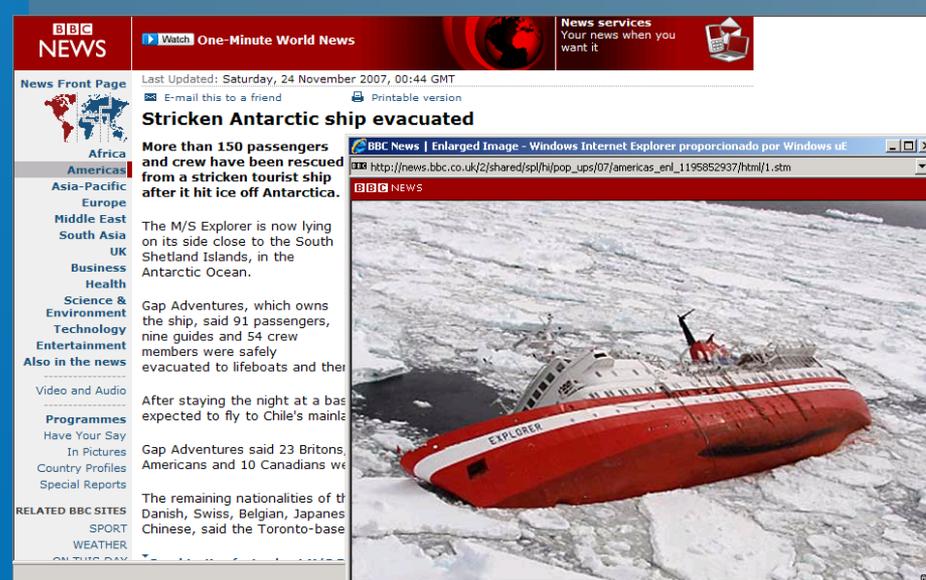
## Capacity Building

### Course for Antarctic Waters Operation (AWO)

- Deck Officers performing their duties on board of vessels under Chilean Flag operating in the Antarctic.
- Topics covered: Navigation in ice covered waters, safe operation of vessels, antarctic climate, international legislation and prevention of the environment pollution.
- This course is free (except flight tickets and accommodations) and it is limited for 21 students.
- 2008 two participants from South Africa attended to the course. Captain Dave Hall and Officer Shelton Samuels, both from the “Aguilhas”.



- Chile has an infrastructure in accordance with the assigned area of responsibility IMO NAVAREA XV.
- This area considers the Antarctic sector of the Chilean responsibility. Transmissions are made through Safety NET INMARSAT – “C”, according to a pre-established schedule.
- Additionally, the “Servicio Meteorológico de la Armada” (Meteorological Service of the navy) broadcasts through Safety Net INMARSAT the navigational warnings about ice edges and plotting of drifting icebergs.



# Oceanographic activities

## Activities in 2009

- Tide gauge maintenance in the Chilean Antarctic Base “O’Higgins”.
- Tide gauge installation in the Chilean Antarctic Base “Prat”.
- Tide measurement in “Caleta Armonía”, Nelson Strait.

## Activities in 2010

- Tide gauge maintenance in the Chilean Antarctic Base “O’Higgins”.
- Tide gauge installation in the Chilean Antarctic Base “Prat”.
- Tide measurement in Gerlache Strait area for INT Chart No.9104.



## Other Activities

### The National Committee of the Antarctic Names

1. This organization is responsible for the study and collection of the historical background of any geographic name graphically represented in the Chilean Antarctic Cartography.
2. 2009 the Committee has been focused on the analysis of the historical information required to assign names for five Chilean land maps that will be published by IGM that cover areas of Bayers Peninsula and Rugged Island.



THE NATIONAL COMMITTEE OF THE ANTARCTIC NAMES



## Other Activities

### New Multibeam Antarctic Echosounder



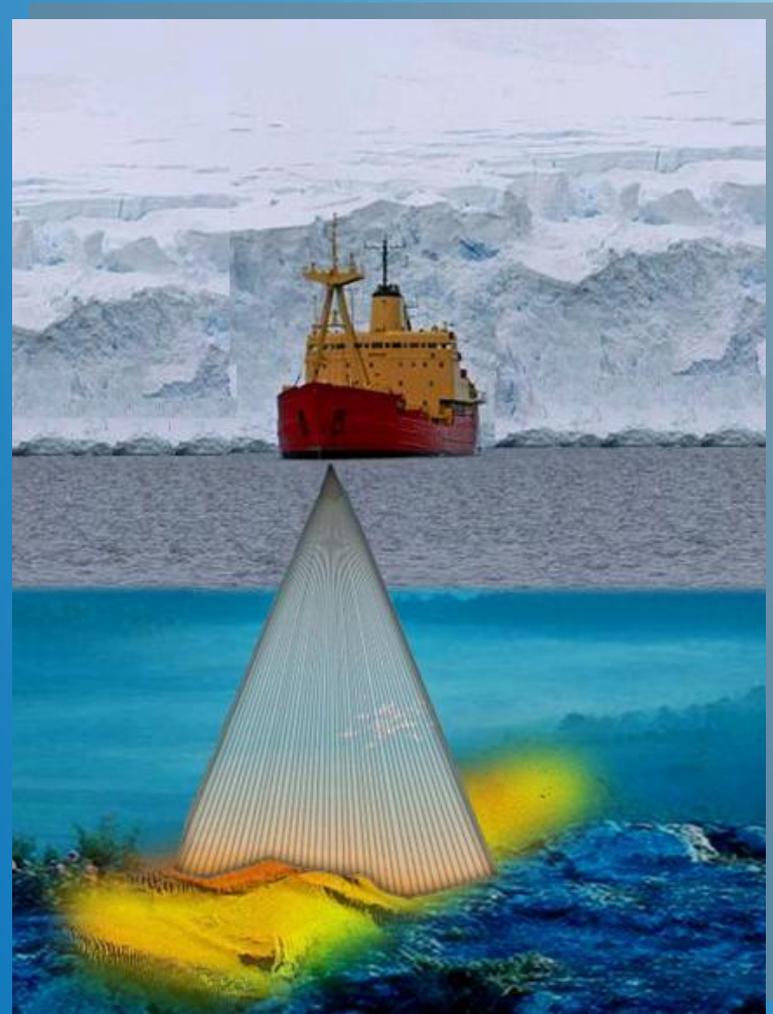
CHILEAN NAVY ICE BREAKER "OSCAR VIEL"



## Other Activities

### New Multibeam Antarctic Echosounder

- In August 2009 the Chilean Navy finished the installation of a new Antarctic Multibeam depth water echo sounder system onboard of the Ice breaker “Oscar Viel”.
- The ice breaker “Viel” will begin the Antarctic operations in October 2009.



CHILEAN NAVY ICE BREAKER “OSCAR VIEL”



## Other Activities

### COMNAP XXI. Annual General Meeting. Punta Arenas, August 03/09.

- Regarding the task defined in the action list No. 8/17, during the last HCA meeting, IHB, UKHO and SHOA participated in the last COMNAP Annual General Meeting carried out in Punta Arenas City, during August 03 - 07.
- In this opportunity the representative of SHOA presented the topic “Practical Initiatives to Improve Hydrographyc and Nautical Cartography in Antarctica”.



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**THANK YOU / MUCHAS GRACIAS!**

