

HCA13-06.3A



[www.iaato.org](http://www.iaato.org)



## International Association of Antarctica Tour Operators

IAATO is a member organization, founded in 1991, to advocate, promote and practice safe and environmentally responsible private-sector travel to the Antarctic.



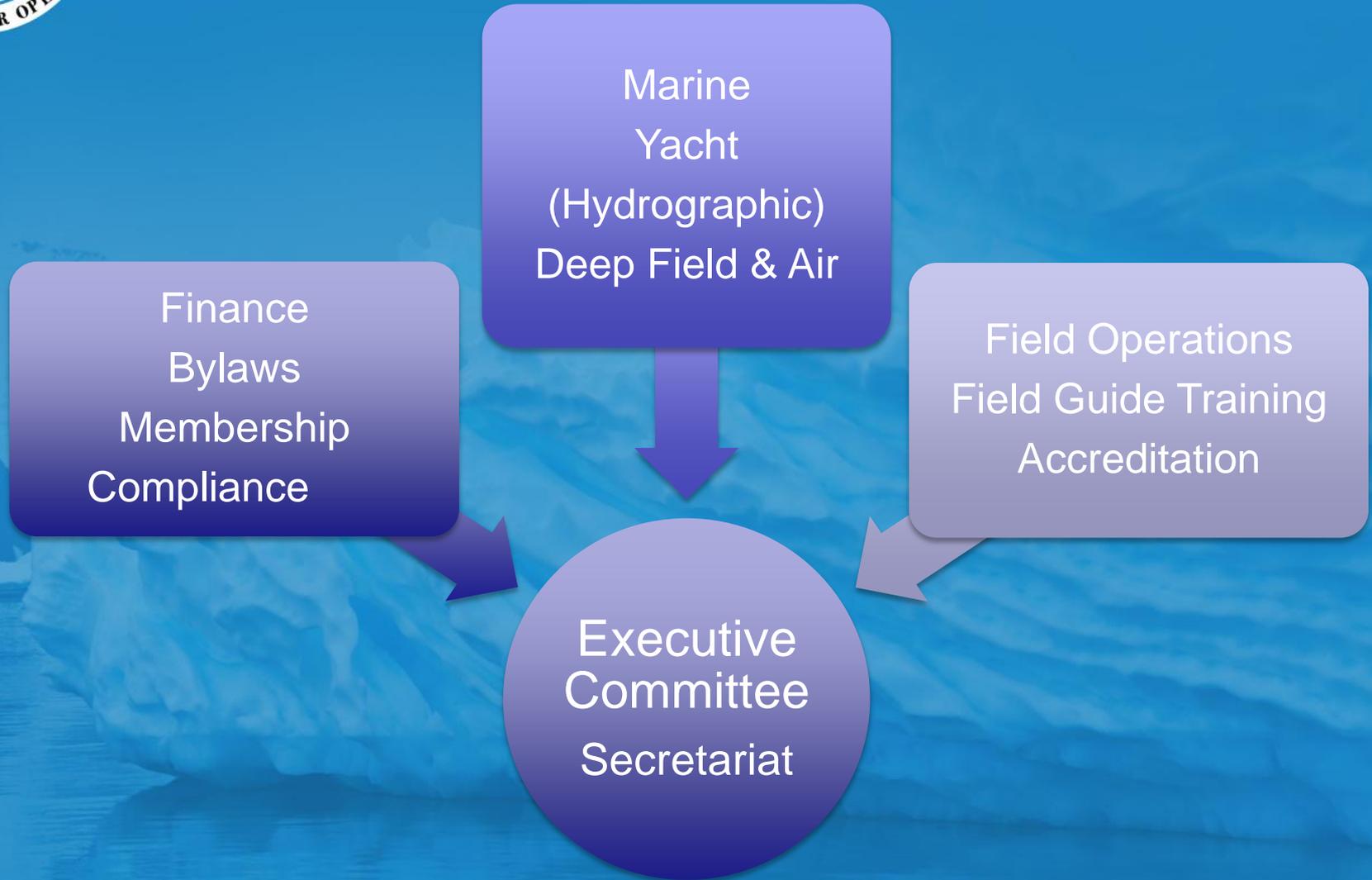


# Air and Deep-Field Operations





# IAATO Organisation





# Some Figures...



## A Summary of IAATO Member Antarctic Tourism Trends

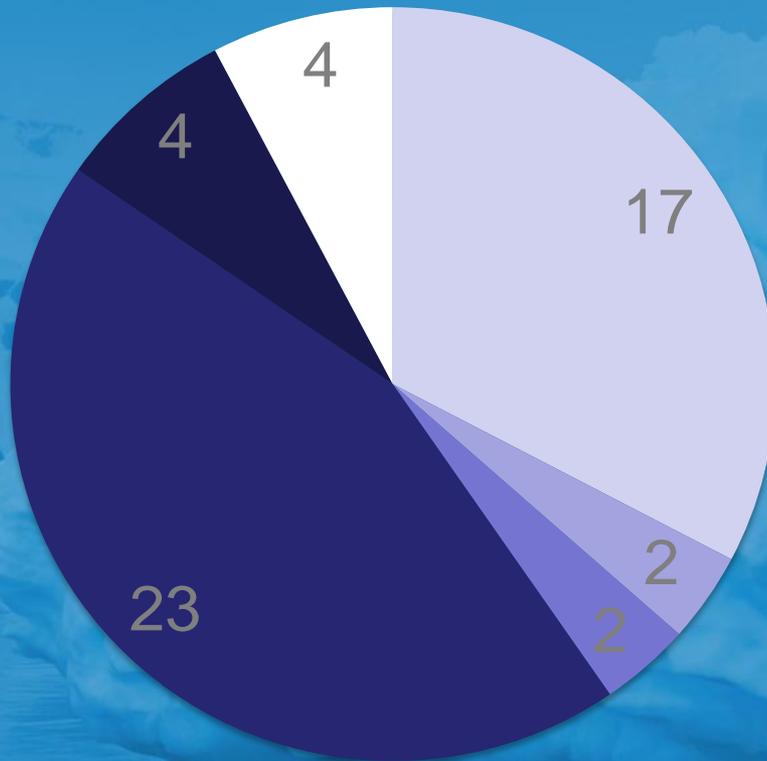
Passenger numbers for 2012-13 and 2013-14 as of May 7, 2013, subject to change.

SEASON	2013–2014 <i>estimate</i>	2012–2013 <i>estimate</i>	2011–2012	2010–2011	2009–2010	2008–2009
Seaborne tourism with landings	23,348	23,305	20,271	18,534	21,277	26,648
Seaborne tourism, no landings	9,920	9,070	4,872	14,373	15,026	10,652
Air & cruise combination, with landings	1,588	1,587	860	531	345	285
Air & land tourism	498	354	516	386	233	273
Over-flights, no landings	0	0	0	0	0	0
<b>TOTAL</b>	<b>35,354</b>	<b>34,316</b>	<b>26,519</b>	<b>33,824</b>	<b>36,881</b>	<b>37,858</b>



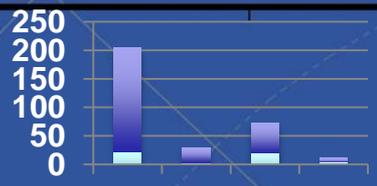
## Some Figures...

2013-14 -- 54 Vessels



- Yachts
- Special Purpose Vessels
- Motor yachts
- 13-200 passenger vessel
- 201-500 passenger vessel
- 500+ passenger vessel

0 1000 Miles

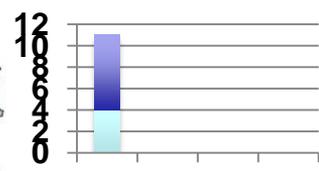


voyages

Weddell Sea

SOUTHERN OCEAN

Ross Sea



Voyages  
Vessels



# What do we do?

- Day-to-Day Management
- Program Development
- External Liaisons

## IAATO Strategic Plan

Guiding the work of the Secretariat, Committees and Working Groups

OPERATING PERIOD

2013-18

Prepared by the IAATO Executive Committee and IAATO Secretariat



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# Day-to-Day Operations: Pre-season

- Creating the network
- Coordination
- Vessel database



Logout Welcome Kim Crosbie

Home Users Ports Expedition Sites **Expeditions** Expeditions' Calendar

List of Expeditions - IAATO

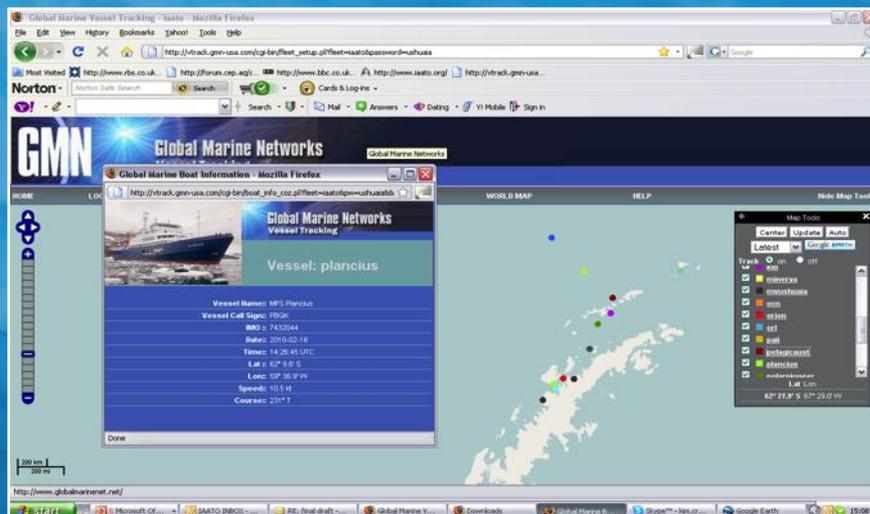
[+ Add Expedition](#)  DD/MM/YYYY \*  DD/MM/YYYY \*

Expedition	Vessel	Member	Leader	Ports	
ARP04JAN2014	MY Arctic P	EYOS Expeditions Ltd.	Tim Soper	Hobart/Dunedin	
AST05DEC2013	M/Y Asteria	EYOS Expeditions Ltd.	Martin Enckell	Stanley/Frei Station	
AST19DEC2013	M/Y Asteria	EYOS Expeditions Ltd.	Martin Enckell	Frei Station/Frei Station	
AST16FEB2014	M/Y Asteria	EYOS Expeditions Ltd.	Martin Enckell	Stanley/Frei Station	
AUS20OCT2013	S/V Australis	Ocean Expeditions	Roger Wallis	Stanley/Stanley	
AUS22NOV2013	S/V Australia	Ocean Expeditions	Roger Wallis	Uluksua/Uluksua	



# Day-to-Day Operations: During Season

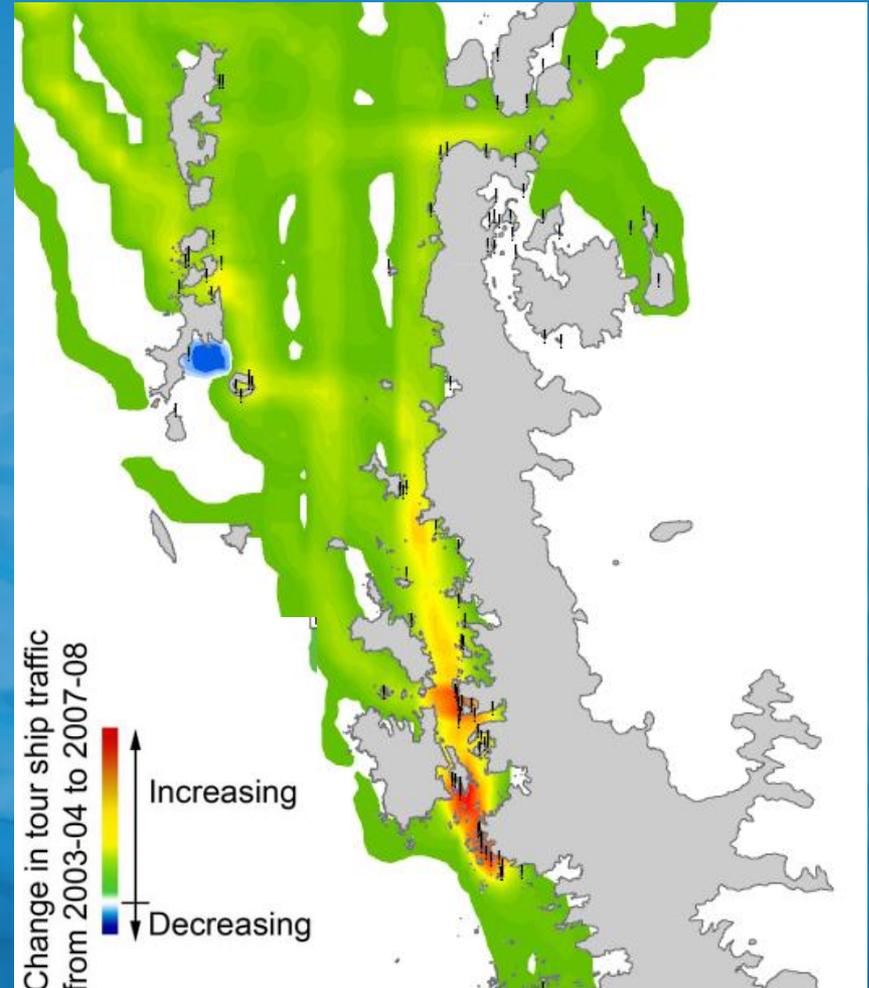
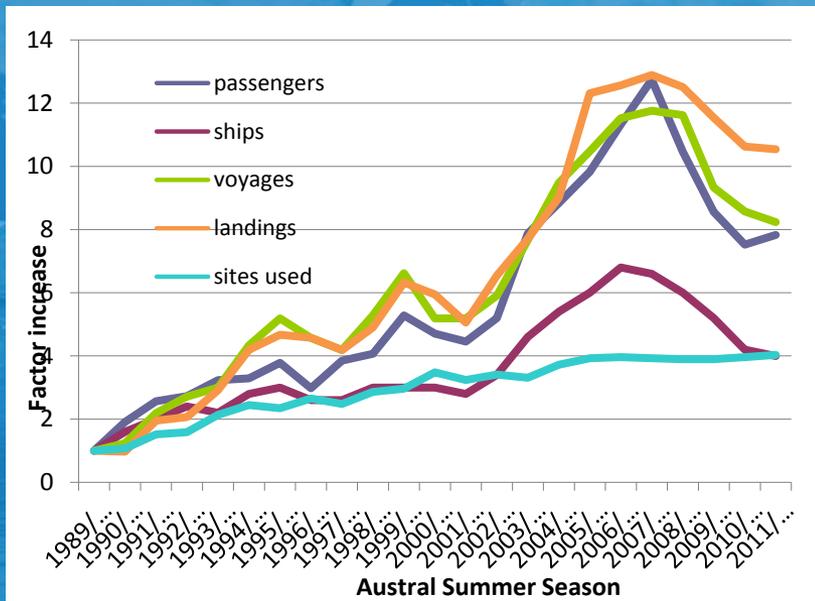
- Passenger training
- Fleet coordination
- Vessel Tracking
- MRCCs





# Day-to-Day Operations: Post Season

- Reporting & analysis





# Program Development

- Guidelines to minimise disturbance
- Collaborative research



IAATO guidelines for Birdwatching

### Viewing birds on shore

On approach to shore - birds such as penguins may be subject to disturbance by small boat operations close to landing sites or colonies.

as possible.  
ding close to colonies.



IAATO General Information for Wildlife Watching

### Introduction

IAATO's General Information for Wildlife Watching and related Guidelines aim to

minimise potential environmental disturbance to marine mammals, seals, and birds in Antarctica. The Guidelines are based on the Antarctic Conservation Act of 1978 (16 USC 2161) and Annex II (Conservation of the Environment) of the Antarctic Treaty. The Guidelines are designed to reduce potential disturbance to marine mammals, seals, and birds in Antarctica. The Guidelines are designed to reduce potential disturbance to marine mammals, seals, and birds in Antarctica. The Guidelines are designed to reduce potential disturbance to marine mammals, seals, and birds in Antarctica.



on bare earth.  
Retreat in the direction you approached from your view.  
attract birds south of 60°.



birds  
ese  
'g.



ise',  
ts own way over the side and return to the

Help Protect Antarctica's pristine environment from non-native species

**DON'T PACK A PEST ANTARCTICA**



IAATO Cetacean watching guidelines

### General code of conduct around marine mammals:

- Stay with the animal up to a maximum time of one hour. If signs of disturbance or change in behaviour occur at any time during the stay with the animals, retreat slowly and quietly.
- Never herd (surround), separate or scatter a group of marine mammals, particularly mothers and young. Where appropriate, stay where they can see you. Never pursue or chase animals
- When close to marine mammals keep voices low, don't whistle or shout
- Keep radio volume down.
- Communicate with other boats to minimise disturbance to animals
- Avoid sudden movements that might startle the animal.

preventing Collisions at Sea has priority over these guidelines at all times.

ing:  
iac, small boats, kayak, etc. (Note: The use of jet- skis, surfboards or  
wildlife)  
s involved in navigating in wildlife-rich areas during viewing sessions

uring a high quality wildlife-watching experience through responsible  
about the welfare of wildlife and expect high standards of conduct by

lations by ensuring that the normal patterns of daily and seasonal activity of  
term. Competent, careful boat handling avoids harming wildlife and leads



# External Liaisons

- Antarctic Treaty Consultative Meetings
- Committee for Environmental Protection

*Assisting in developing sound management*

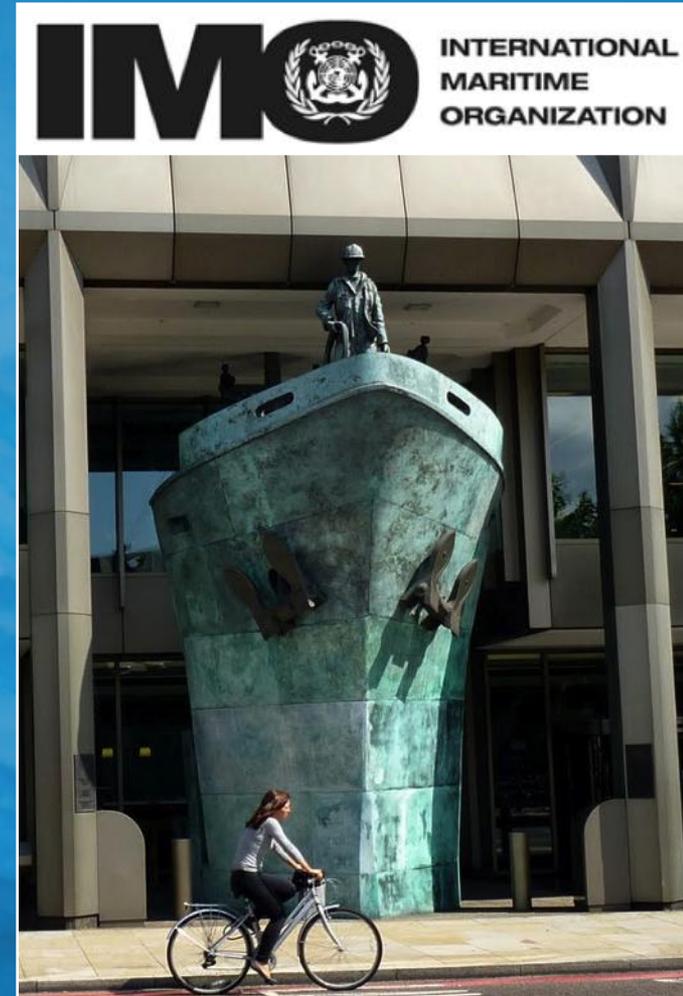
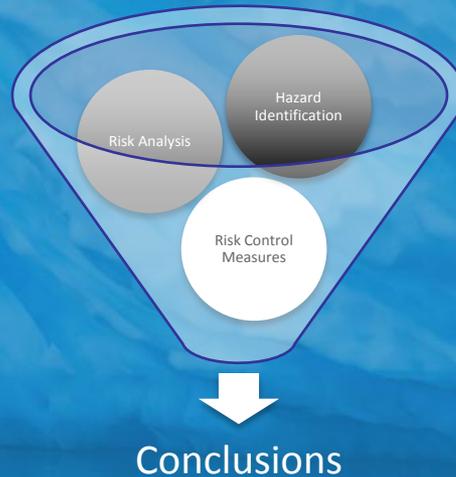




# External Liaisons

- IMO – Polar Code
- Risk Assessment work
- Polar Waters Operations Manual

Implications.....





# External Liaisons

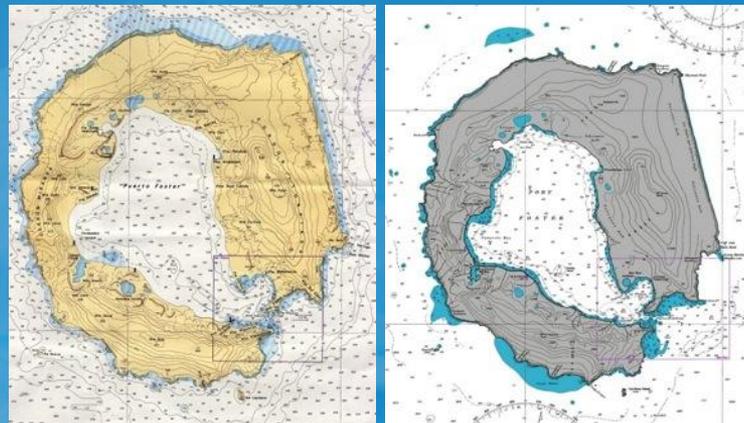
- Search & Rescue
  - Information Exchange
  - Exercises





# External Liaisons

- Hydrography
  - Challenges
  - Potential solutions





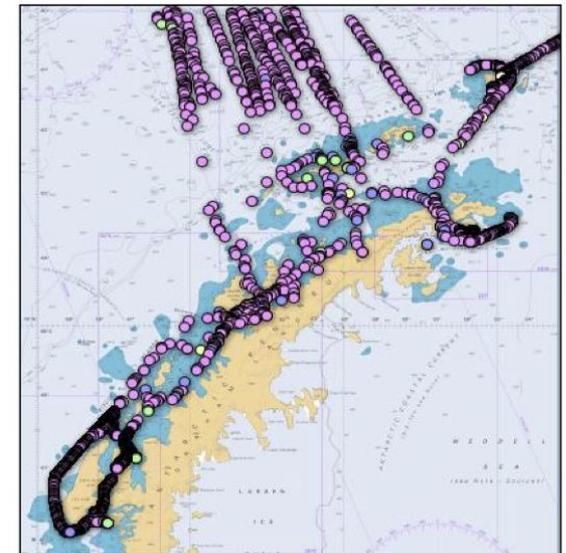
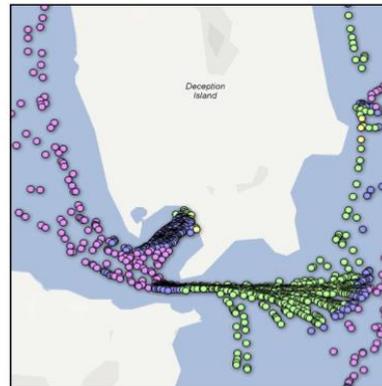
# Crowd Sourcing – potential solution?

## IAATO Trial Summary

	NG Explorer	Bark EUROPA	MS Expedition	M/V Plancius	M/V Ortelius
<b>Commission Date</b>	January 2012	December 2012	January 2013	Installation in progress	Installation in progress
<b>Soundings</b>	18,245,124	243,426	1,551,607		

Total Soundings: 20 million

Antarctica Coverage: 240 sq km



THE UNITED KINGDOM  
HYDROGRAPHIC OFFICE

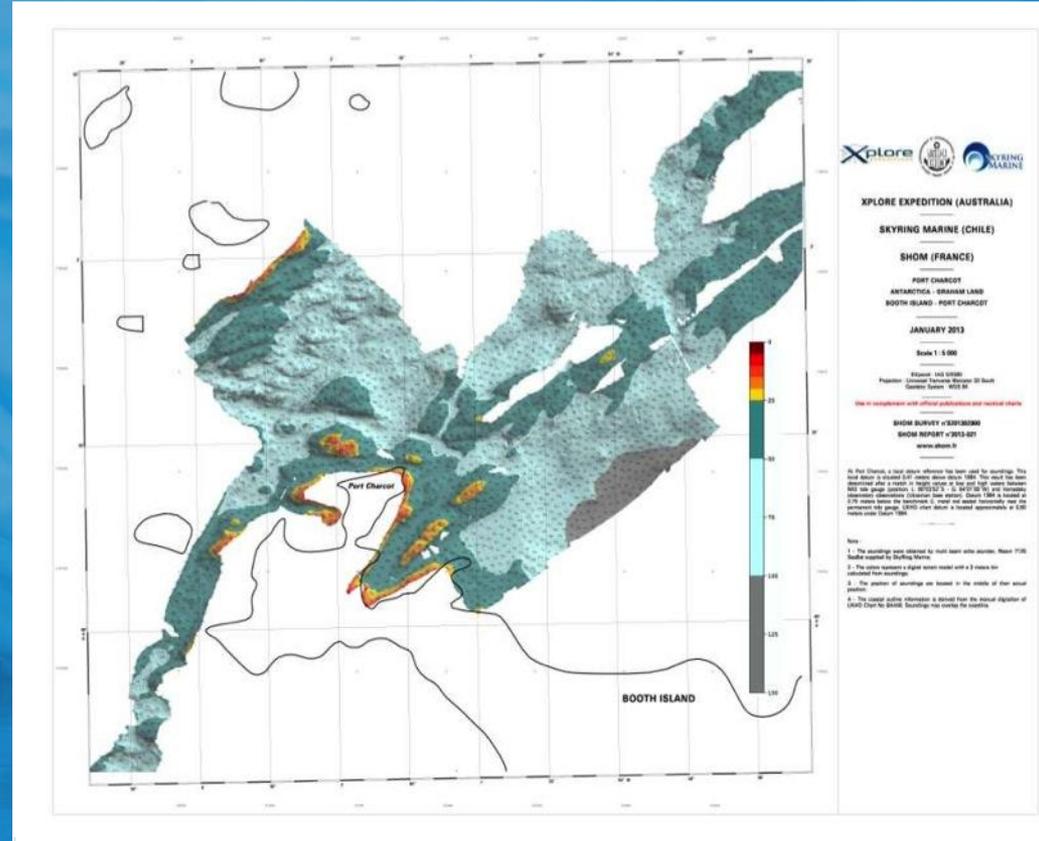
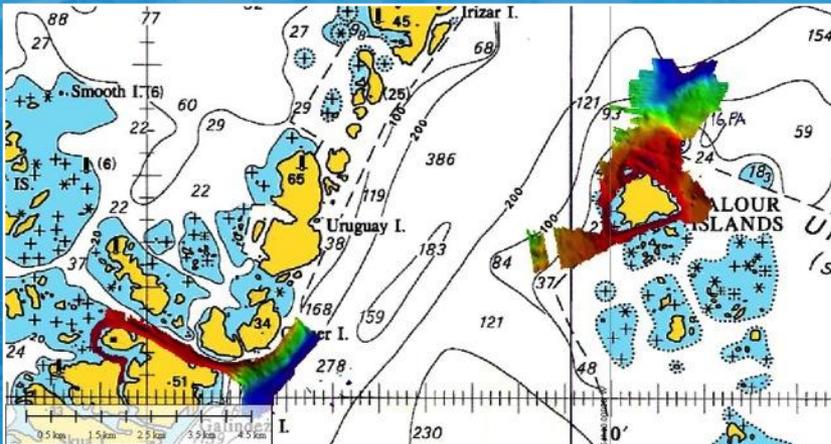
**caris**

**SURVICE**  
ENGINEERING COMPANY



# Other solutions?

## Collaborative work with HCA and individual Hydrographic Offices





# Xplore Survey

<http://www.tv.reson.com/video/815307>

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# Xplore Survey

## The Plan:

- Multi beam calibration Enterprise Island
- Hydrographic survey in Useful - Island
- hydrographic Exploration survey in Peltier Channel
- Hydrographic survey in Booth Island

## The Reality:

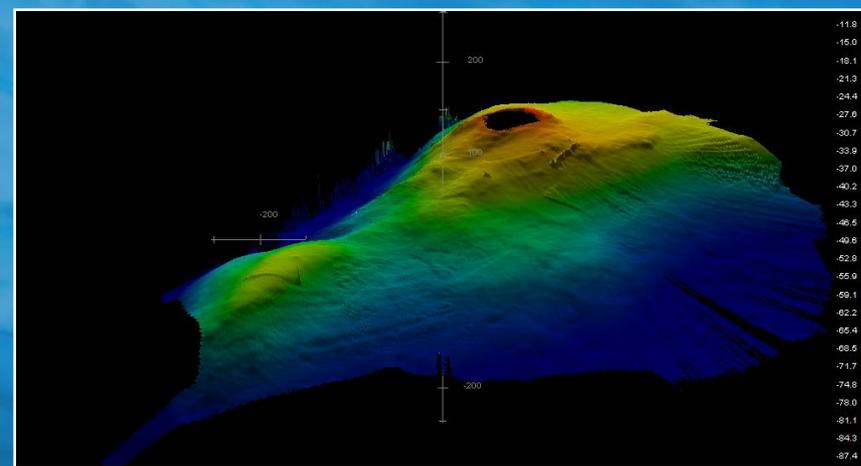
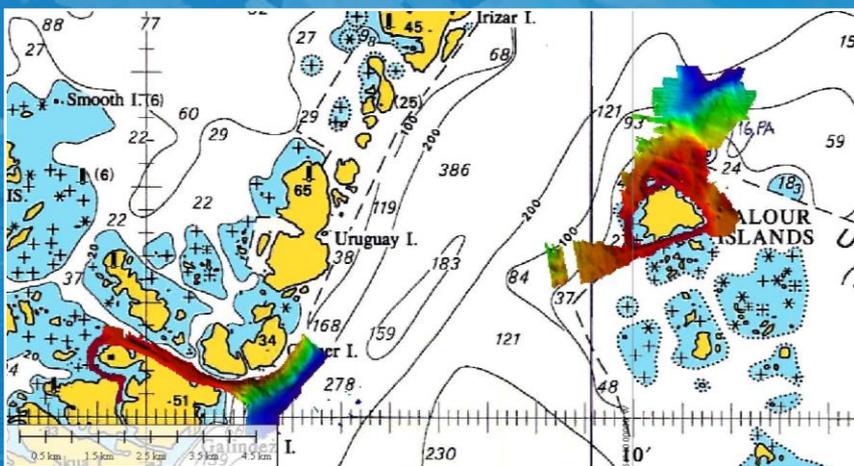
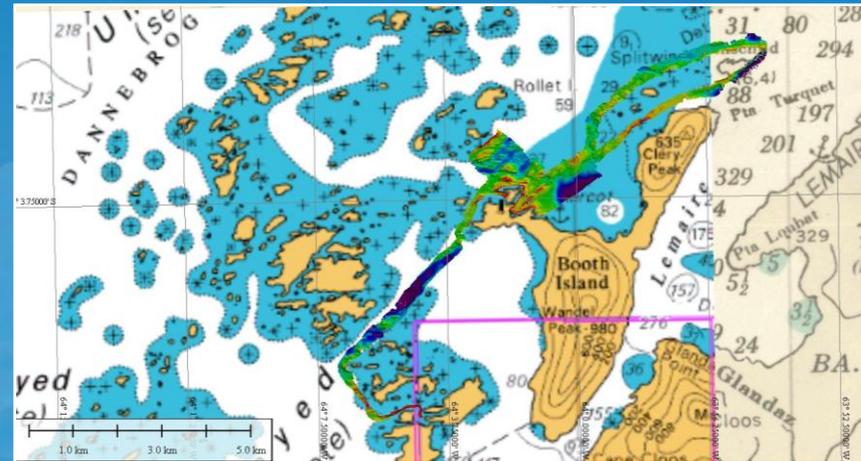
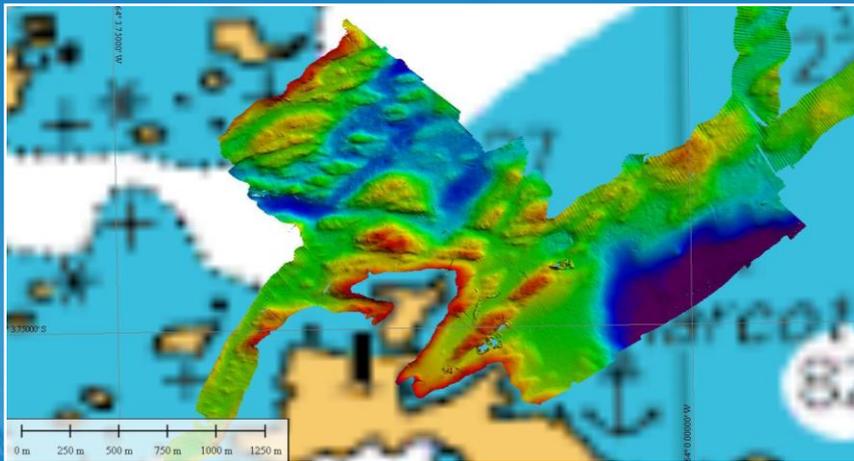
- First multibeam calibration Enterprise Island (02/01/2013)
- Hydrographic exploration survey Enterprise Island (03/01/2013)

## The Reality Cont...

- Passage Data From Enterprise Island to Port Lockroy (04/01/2013)
- Second multibeam calibration Port Lockroy (06/01/2013) and Hydrographic exploration survey Peltier channel (06/01/2013)
- Passage data From Pelletier channel to Booth Island - Port Charcot (06/01/2013)
- Hydrographic survey in Port Charcot (08/01/2013)
- Passage data Booth Island to Hovgaard Island (09/01/2013)
- Third multibeam calibration Hovegaard Island and passage data to Argentina Island with exploration hydrographic survey in Yalour Island (11/01/201)



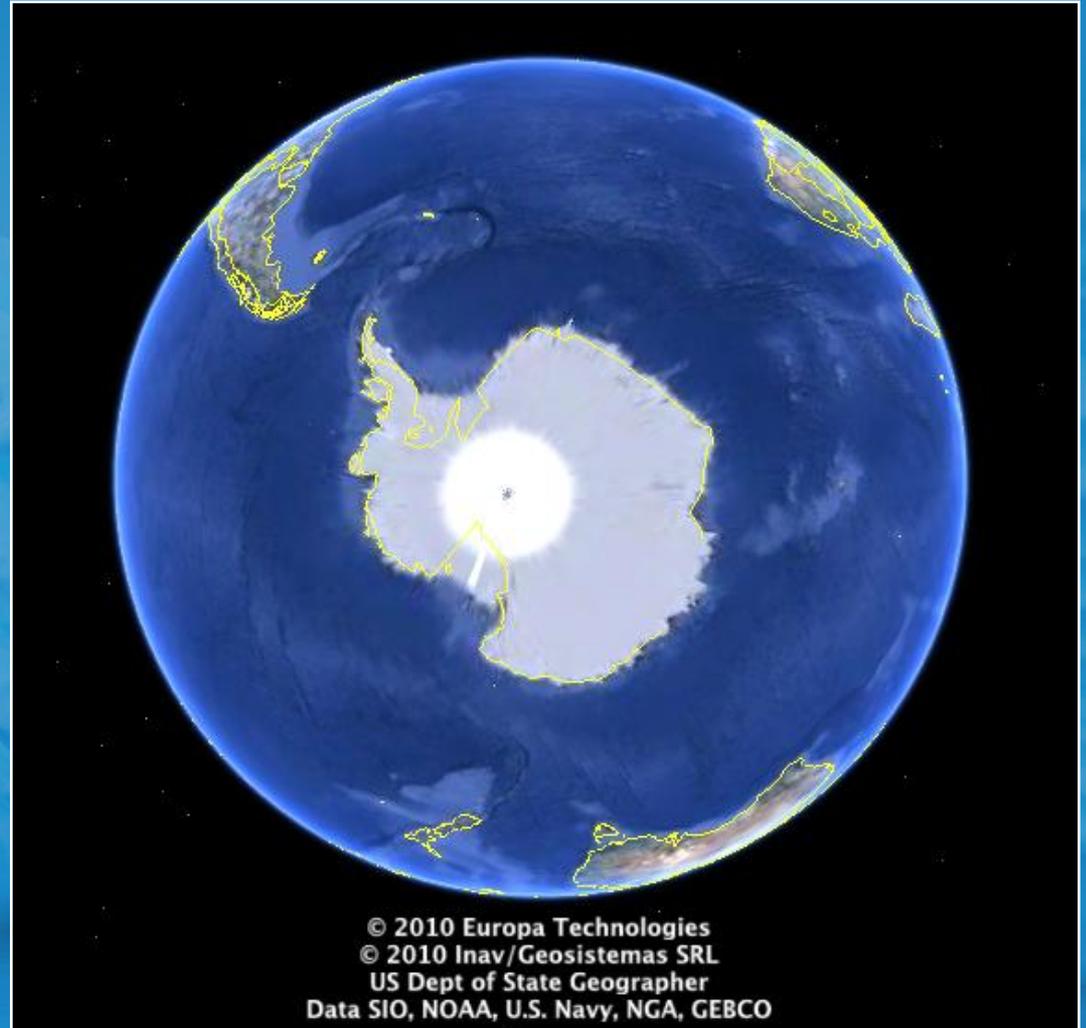
# Xplore Survey: Results





# Mutual Cooperation

- Willingness
- Innovative
- Practical





# Any Questions?

