

# VENUS

## Victoria Experimental Network Under the Sea

Monitoring Ocean Sound on  
Cabled Ocean Observatories

Richard Dewey

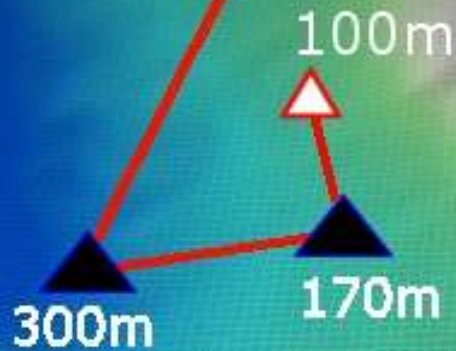
University of Victoria

[www.venus.uvic.ca](http://www.venus.uvic.ca)

# UVic's Ocean Observatories: NEPTUNE and VENUS

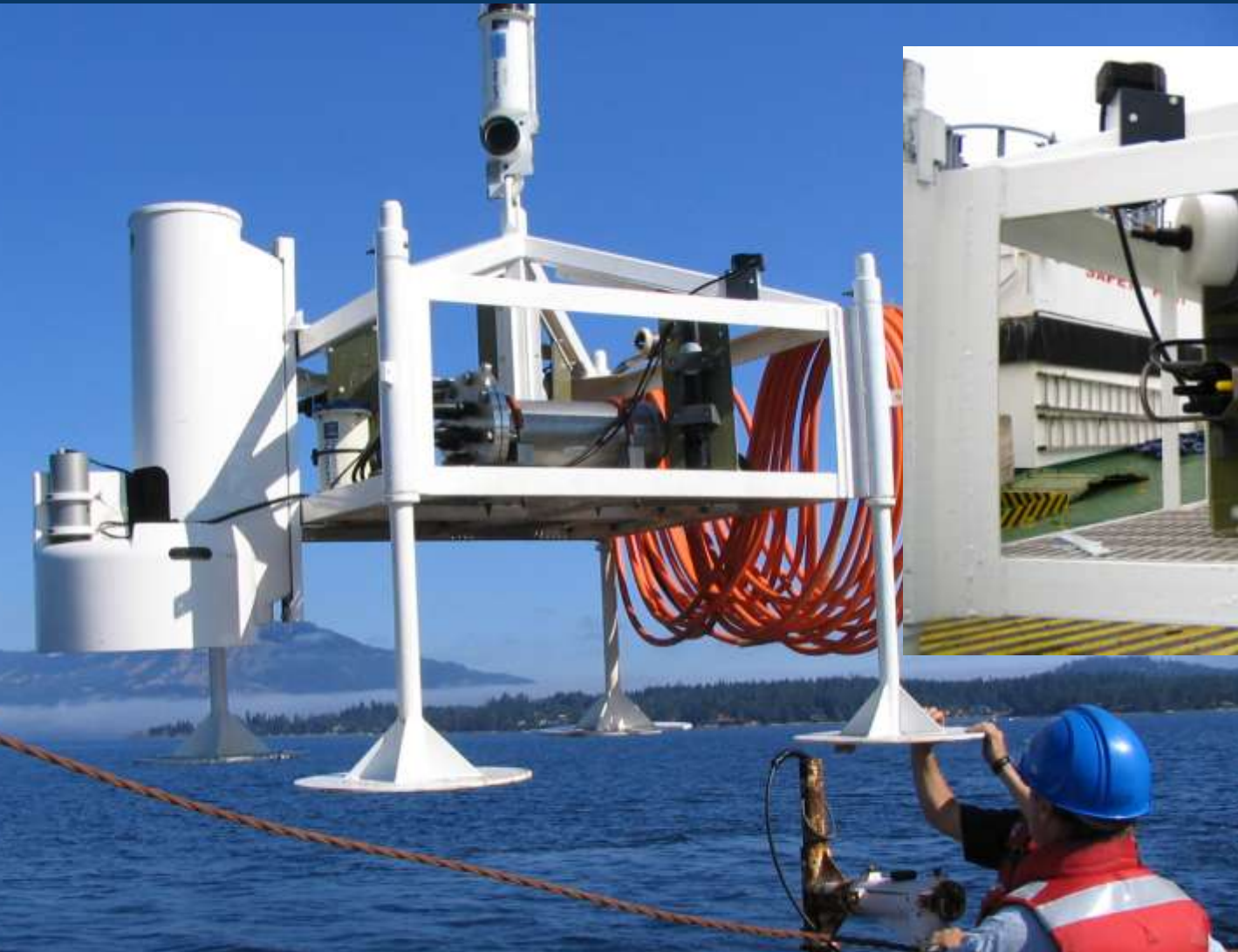


# VENUS - Strait of Georgia 2008



# VENUS Instrument Platform

with CTD, 200 kHz echo sounder, sediment trap, dissolved gases, ADCP, transmissometer, etc.



# VENUS Hydrophone Array



Broadband ambient sounds from marine mammals and environmental processes (wind, waves, rain, lightening) and humans (ships)

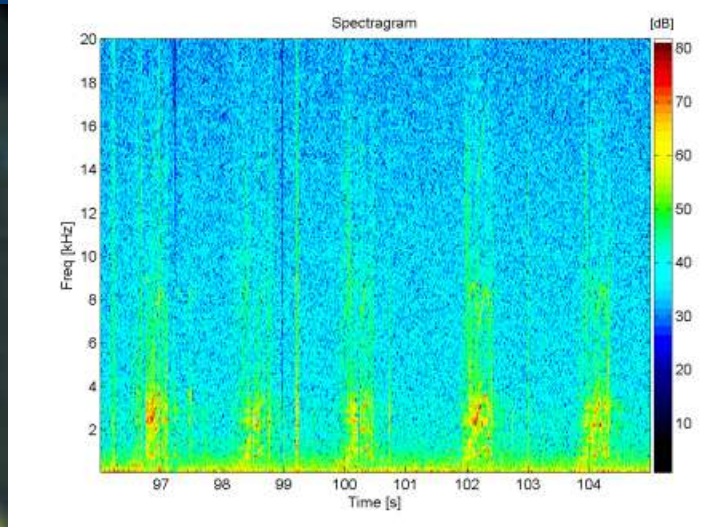
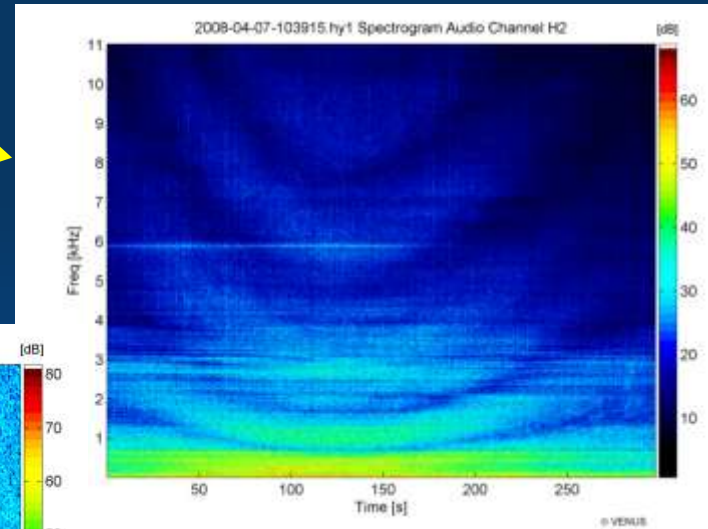


# Listening to the Ocean: Killer Whales in a Major Transit Corridor



Acoustic Noise: Monitor and quantify

Are whales adapting their vocalizations or behaviour?



Lloyd's Mirror



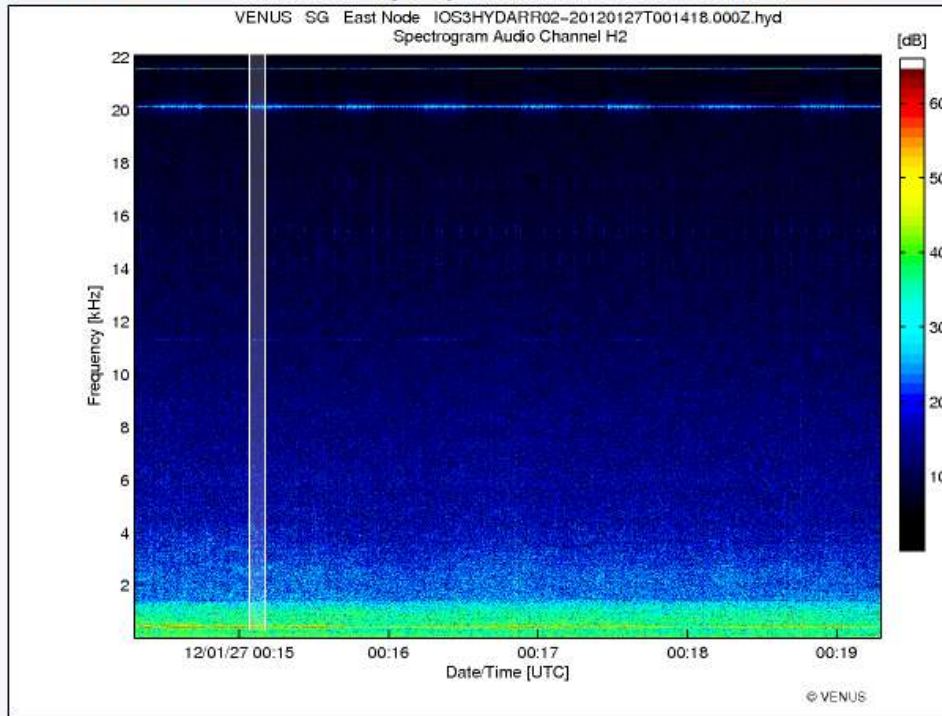
## Strait of Georgia East Node Latest Hydrophone Data

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- Sitemap
- User Guide (PDF)
- RELATED PROJECTS
- MARS
- NANOOS
- NEPTUNE Canada
- Ocean Networks Canada
- ONCCEE
- OTTB
- US Initiative (OOI)

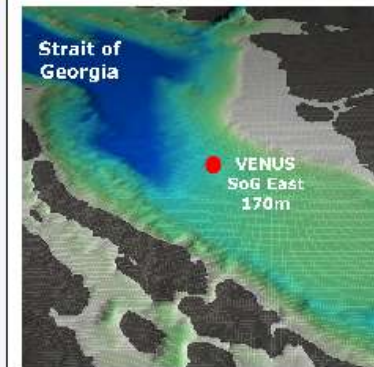
Hydrophone 1

Hydrophone 2

Hydrophone 3



### Information:



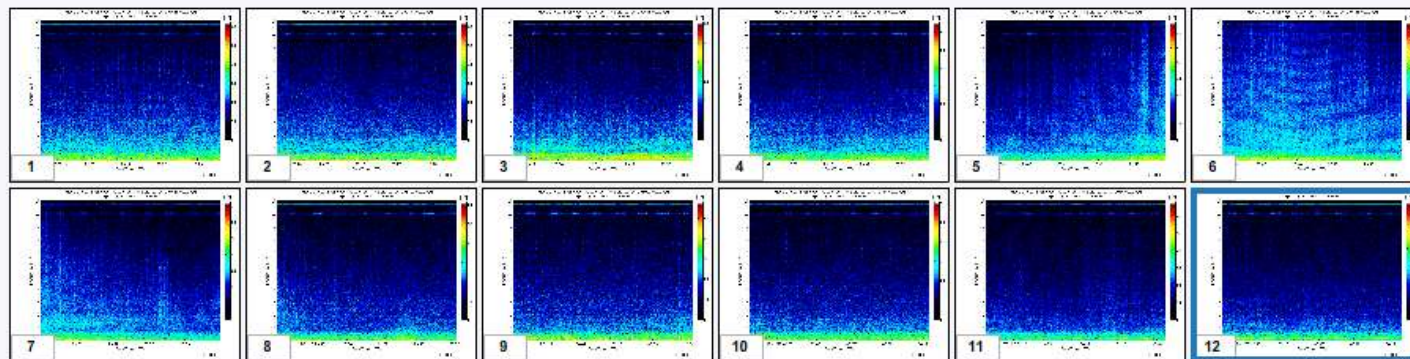
#### Strait of Georgia East Node

Longitude: 123° 19.0286 W  
 Latitude: 49° 02.5453 N  
 Depth: 170m  
 Date: 2012-01-27  
 Time: 00:14 UTC

#### About Hydrophone Data

DOWNLOAD: [Image](#) [Audio](#)

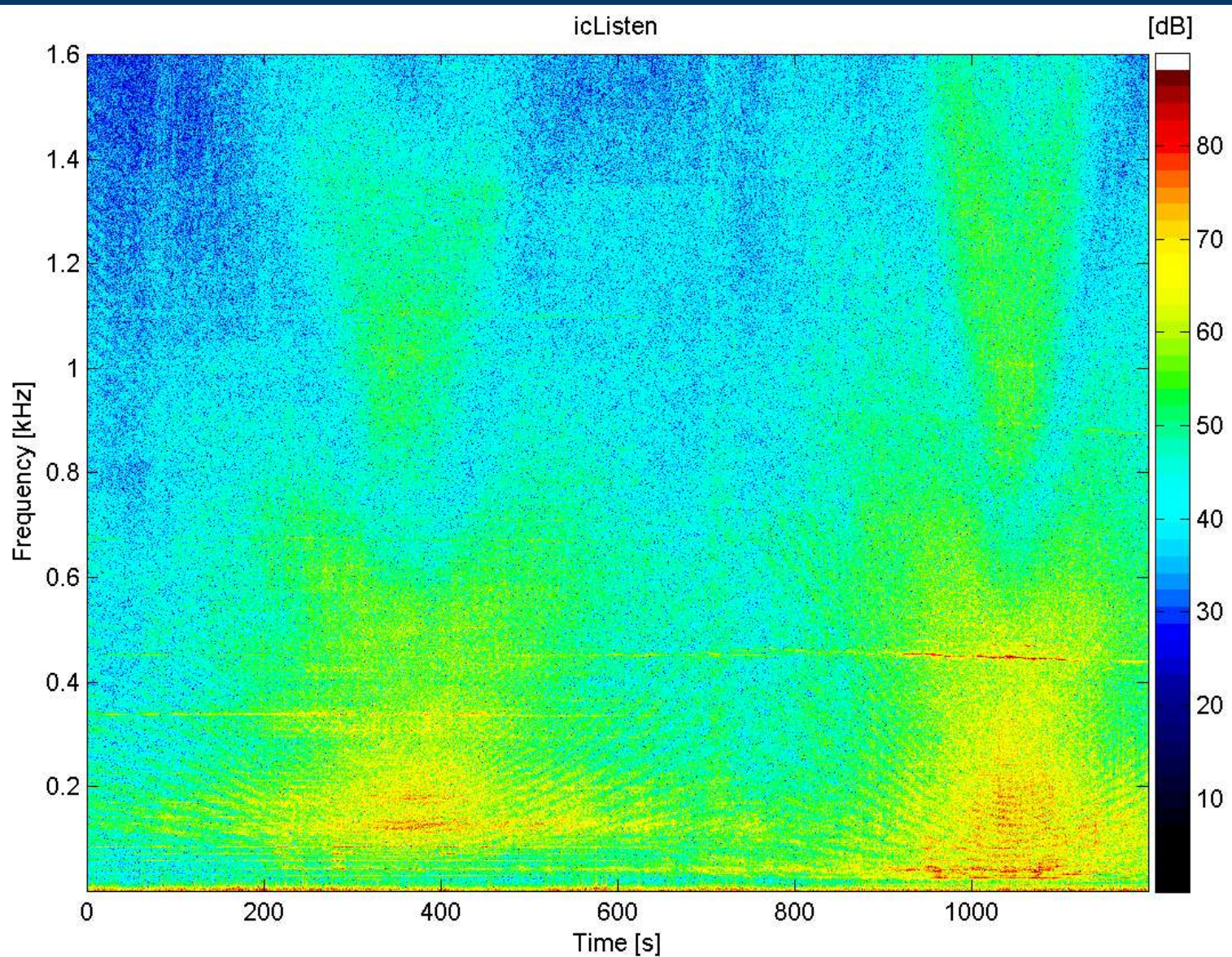
Slide navigation controls: Play/Pause, Stop, Volume, Previous, Next, Full Screen. SLIDE 12 OF 12, TIME: 048:11 / 299:80



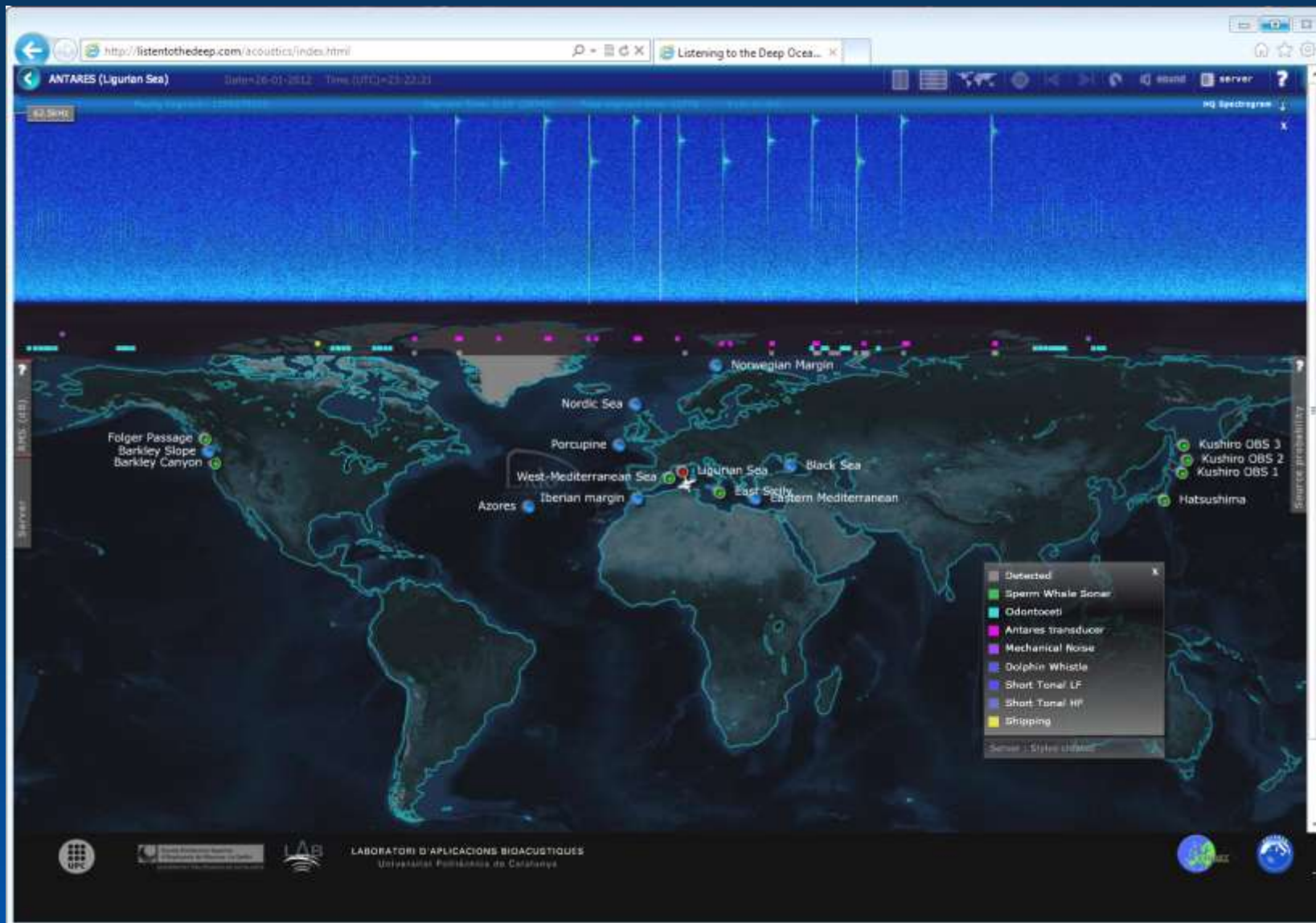
# Examples of Sounds from the Strait of Georgia

<http://www.venus.uvic.ca/>

# Testing New Technologies icListen LF Hydrophone



# NEPTUNE Canada → Listen To The Deep Ocean (LIDO)



# VENUS

Visit us at  
[www.VENUS.uvic.ca](http://www.VENUS.uvic.ca)



**OCEAN NETWORKS CANADA**  
EXPLORATION • INNOVATION • ACTION  
FOR A CHANGING PLANET  
*A University of Victoria Initiative*



# VENUS: 2011-2014

