

RBR APT SMART cables systems - JTF 6th Workshop Brest 2017 Greg Johnson, PhD, CEO

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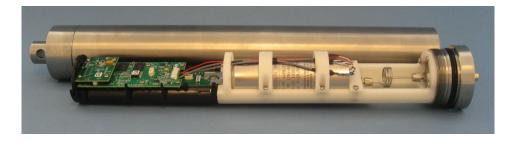
Overview

- 1 package for pressure and 3-axis accelerometer at high resolution
- 3 units purchasd in January 2017 by Neptune Canada
- Preliminary Results from Neptune deployment

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- Pressure based on Paroscientific Digiquartz transducers
- RBR High resolution period counting
 - 10 ppb depth resolution in less than 1s
- 20Hz sampling
- Ext power 4V-30V or internal batteries
- RS232/RS485
- Down to 10 000m depth
- 60 mm dia., 250 mm length



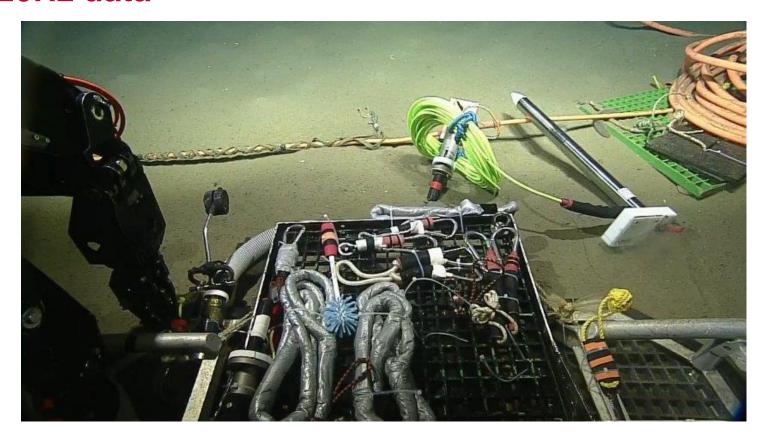
RBR APT



- Pressure and acceleration based on Paroscientific sensors
- RBR High resolution period counting
 - 10 ppb depth resolution in less than 1s
 - +/- 3g no clipping
- 20Hz sampling
- Ethernet TCP/IP communication
- NTP synchronization
- MINK connector
- Autonomous mode
 - Low power
 - Internal batteries
- Down to 10000m depth
- 60 mm dia., 1m length
- 9V 18V input voltage

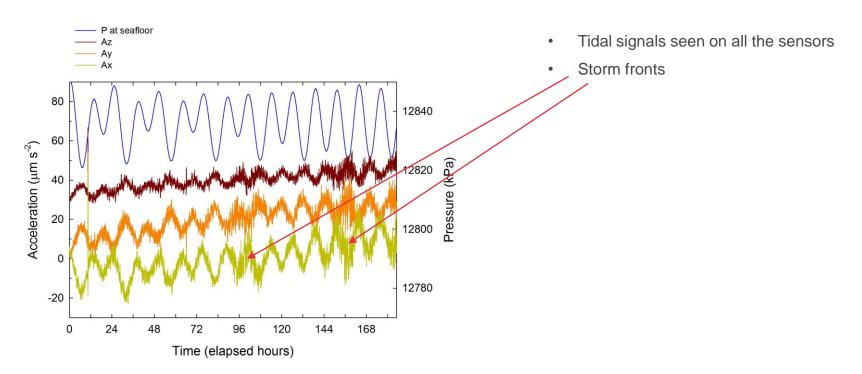


Deployment on Neptune - Clayoquot Slope – 20Hz data



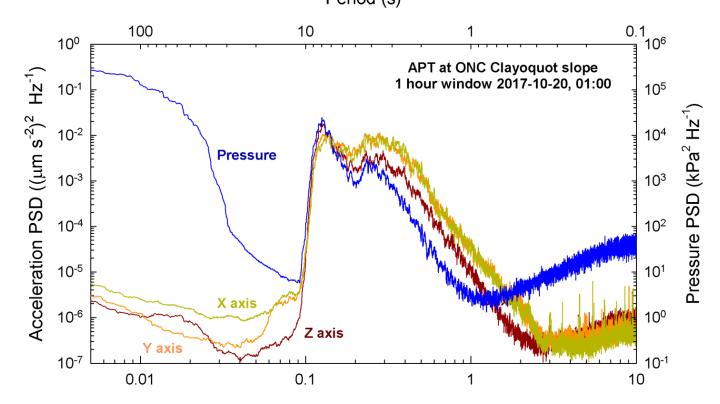


Tidal signals



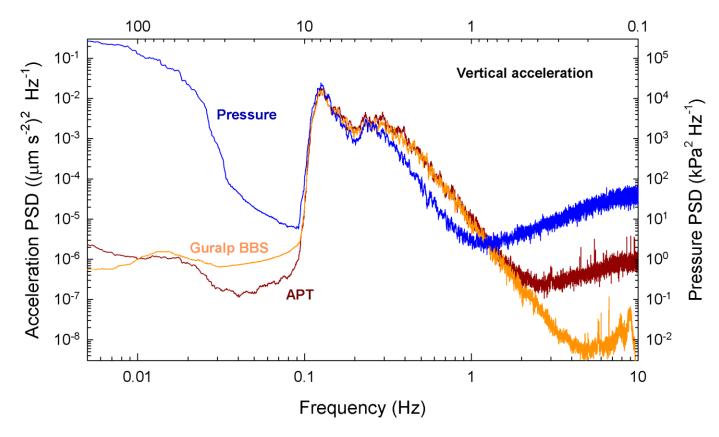


Slope 10ppb ~= 27bit, ±3g range Period (s)





APT vs Guralp seismometer – Clayoquot Slope 10ppb ~= 27bit, ±3g range







RBR and SMART cables systems

- 1 electronic does all: APT, CTDs, Argo floats, glider
- Small form factor, low power and modular electronic, down to 10000m
- Long experience working with different industry partners

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Thank You

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