

PAMBuoy for Mitigation

Cormac Booth
27th September 2012

www.PAMBuoy.com
www.smru.co.uk

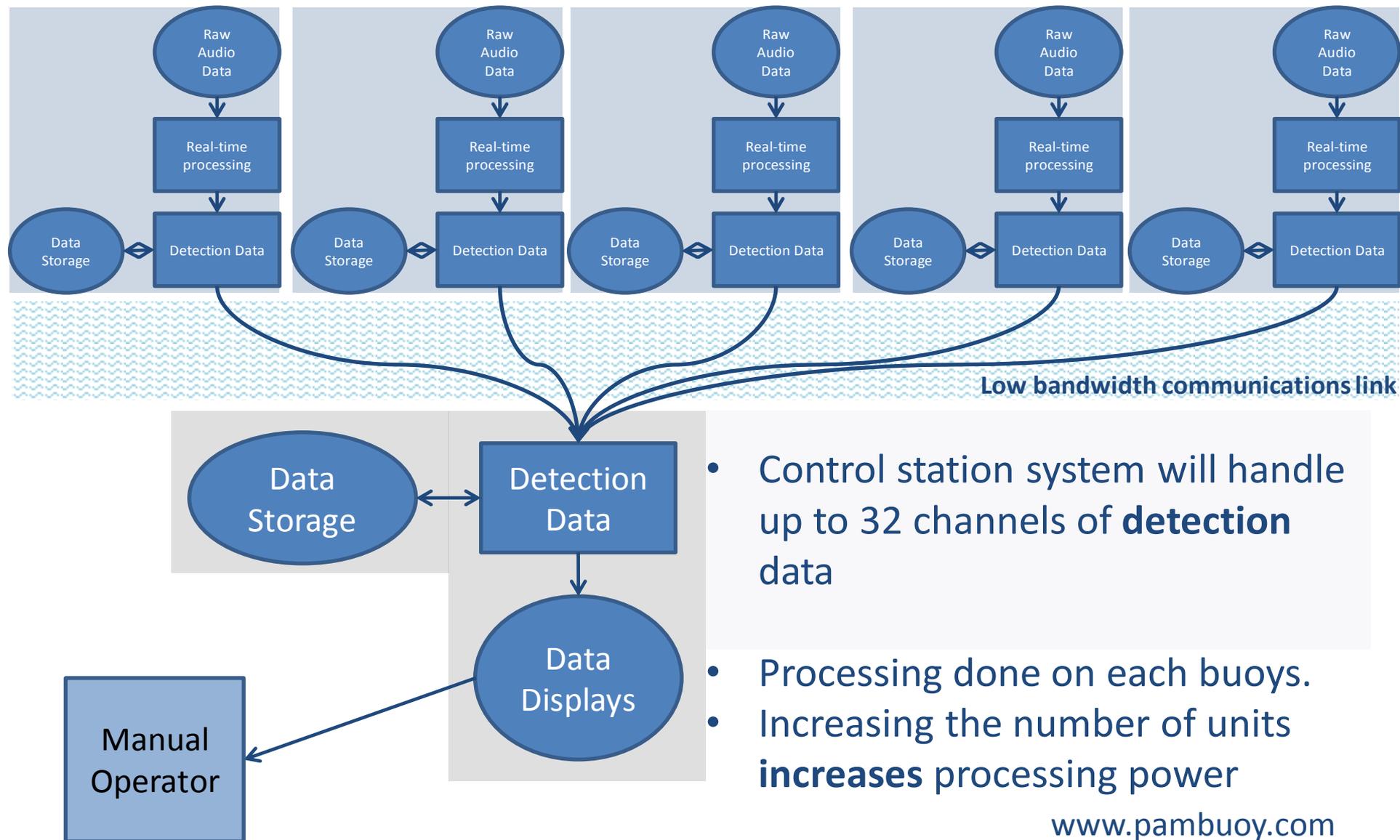


MITIGATION DURING INDUSTRIAL ACTIVITIES

- Improvement over visual MMO?
- **Real time data;**
- **Highly efficient** MM detection;
- Automated notification system;
- Provides **audit trail** of mitigation decisions;
- Housed in a small, robust buoy system – **easy to deploy & retrieve**
 - **< 1m² in deck space**
- **Deployed in array** – multiple units communicating at once

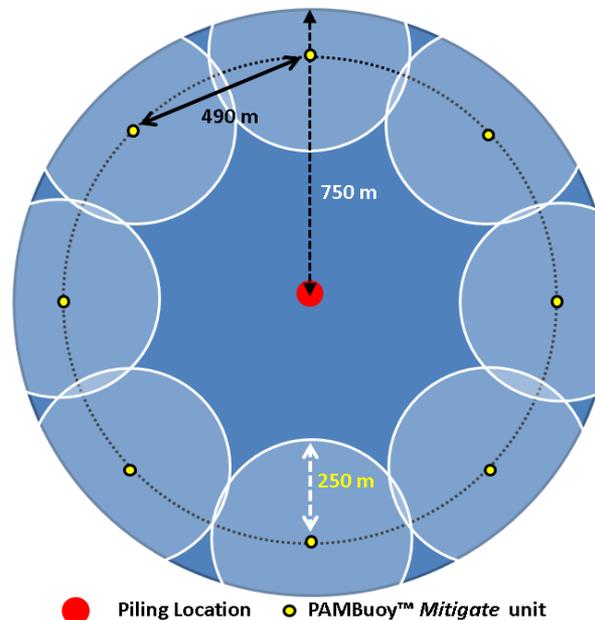
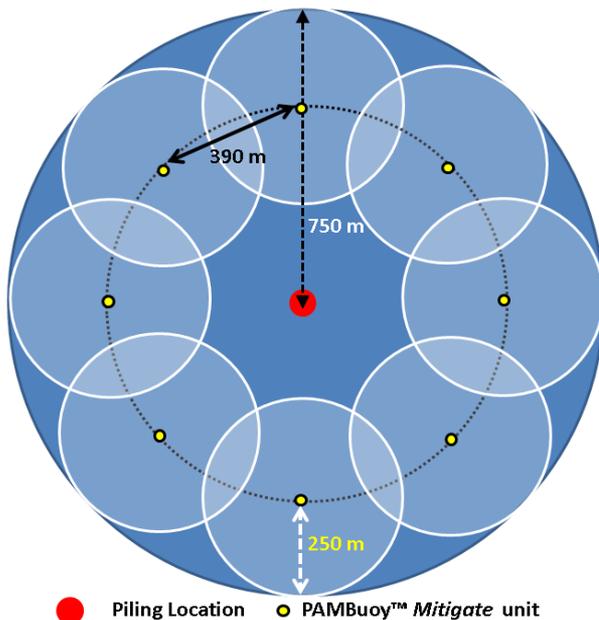


Multiple Buoys



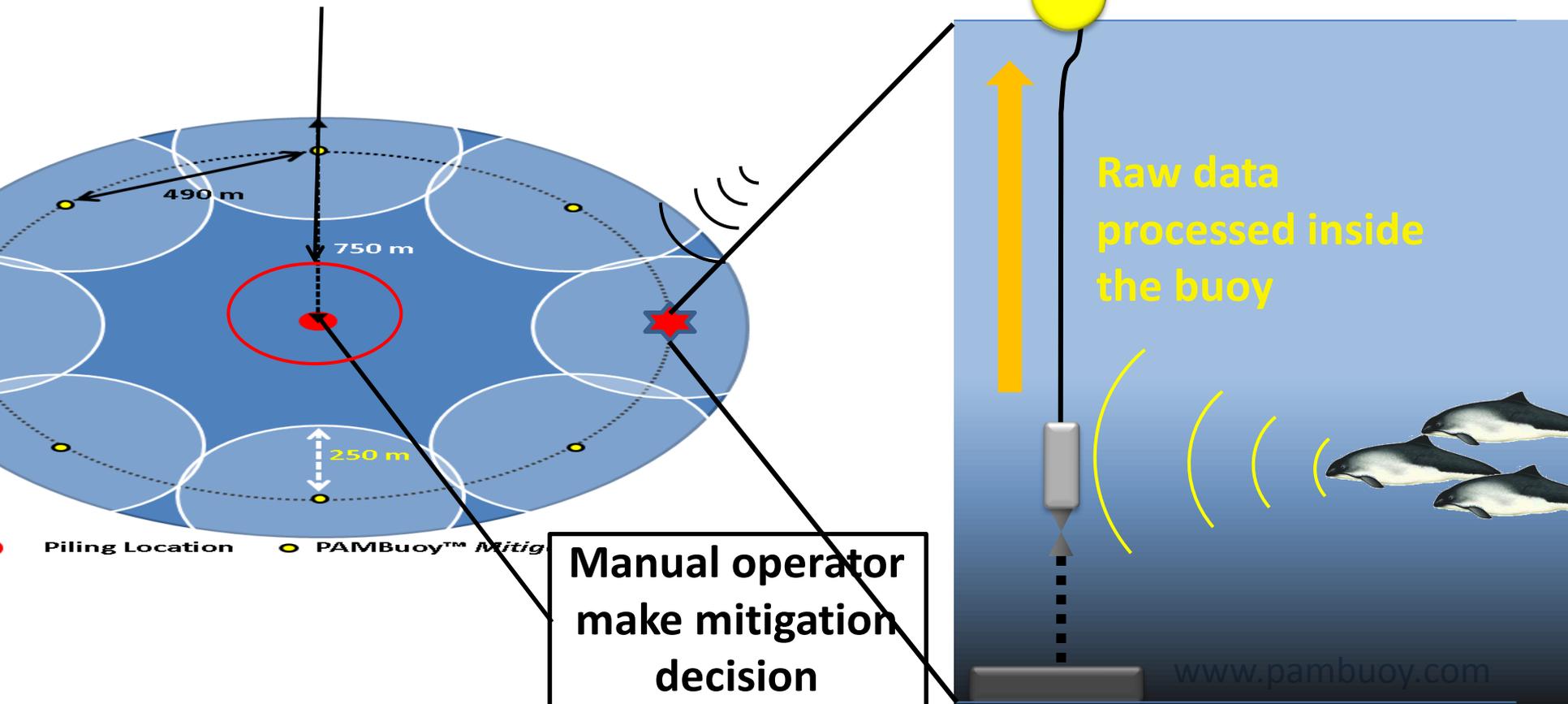
PAMBuoy™ Mitigate arrays

- Porpoise detection range = ~250m
- Many possible configurations
 - Want to maximise chances of detection and deterring porpoises from construction site
 - Depending on size of monitoring area
 - Number of units in array
 - Spacing of units



Detection data transmitted wirelessly to control station

Central Control Station

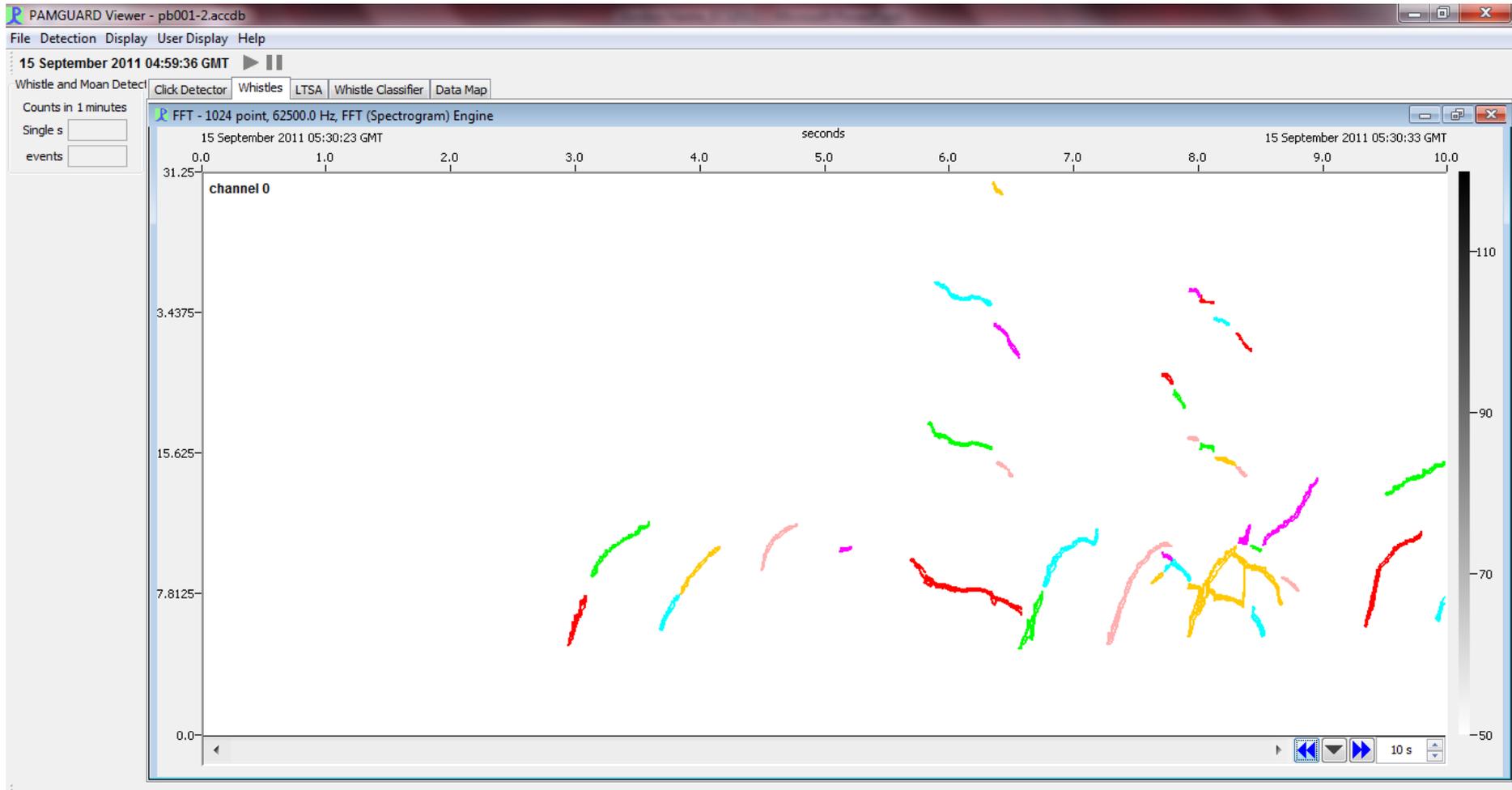


Piling Location ● PAMBuoy™ Mitig

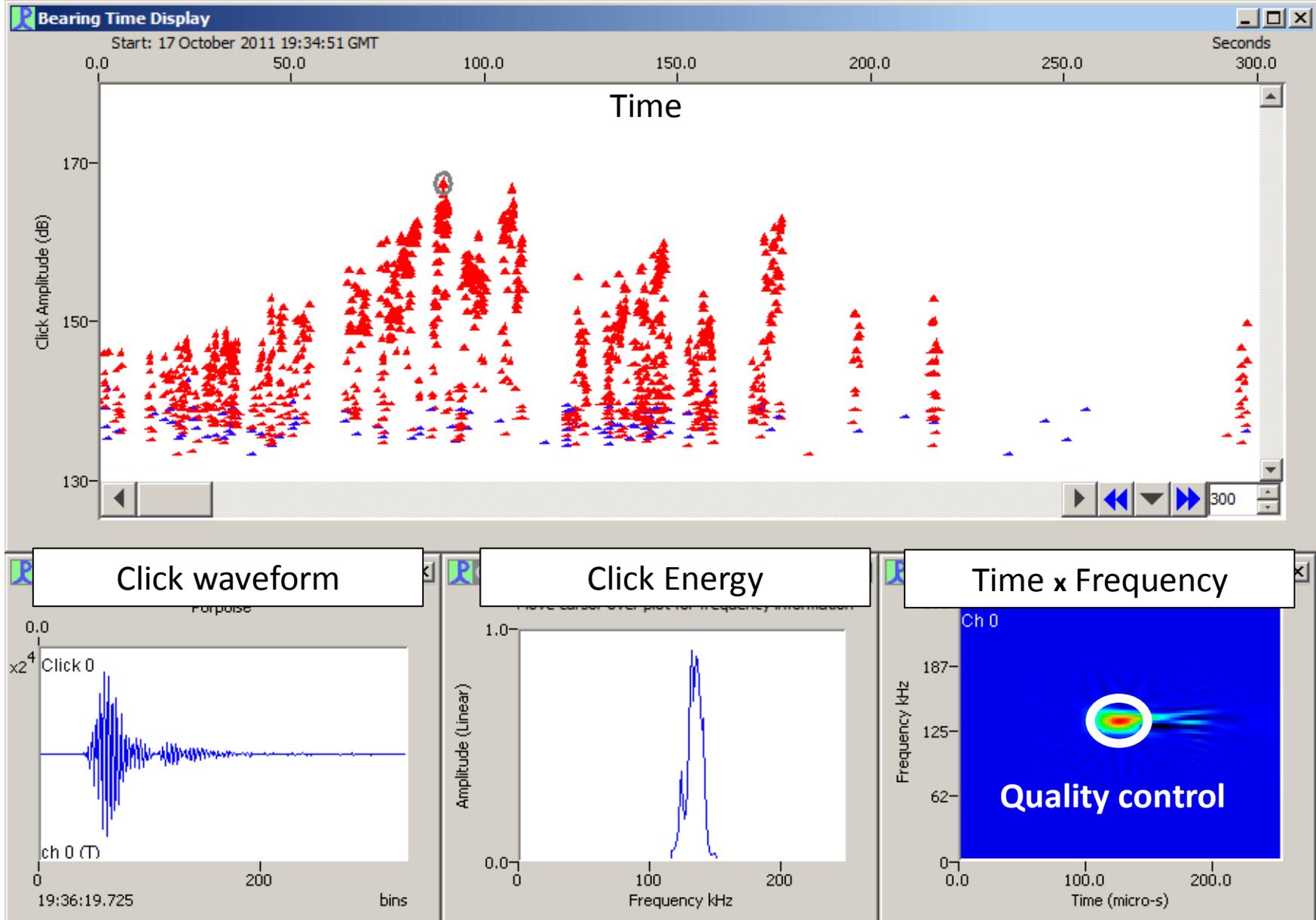
**Manual operator
make mitigation
decision**

**Raw data
processed inside
the buoy**

Data delivered

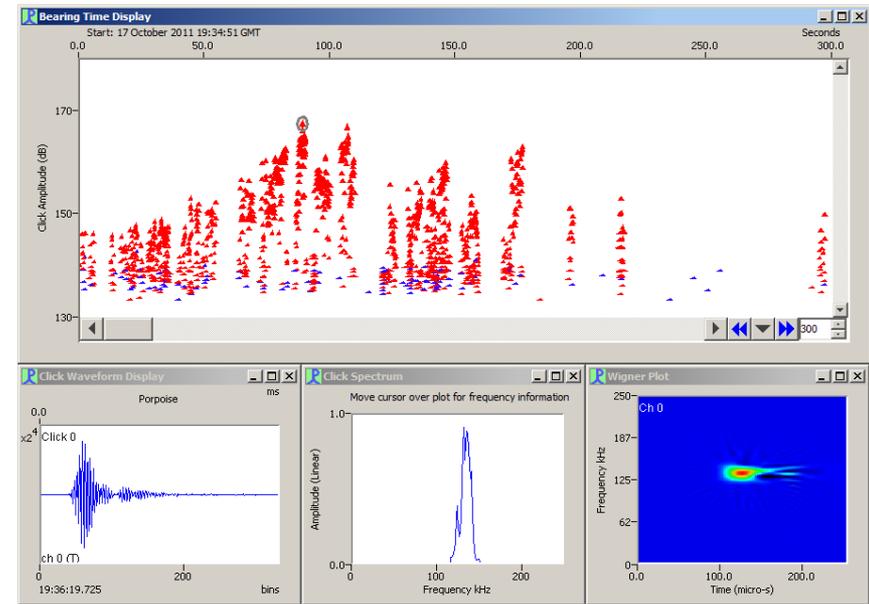


Detection data - porpoises

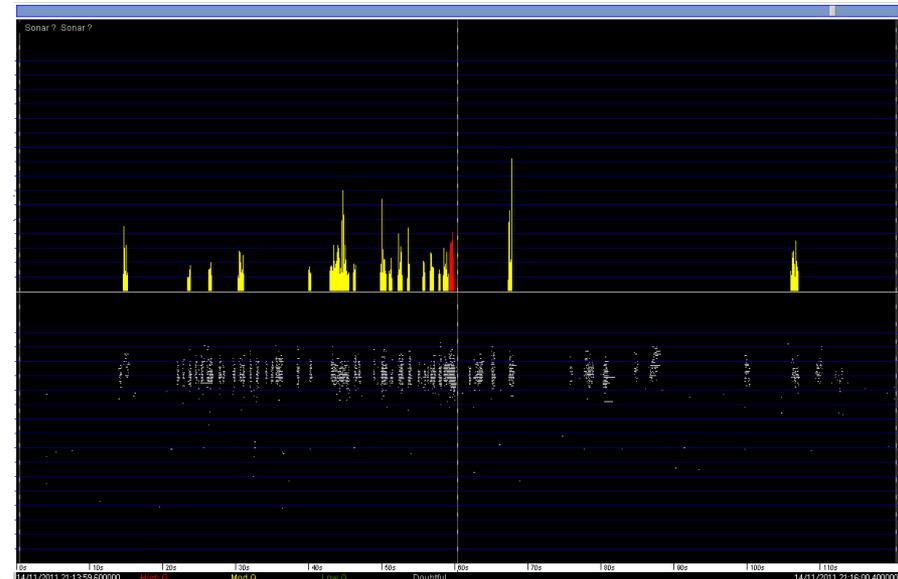


Detection data – vs CPODs

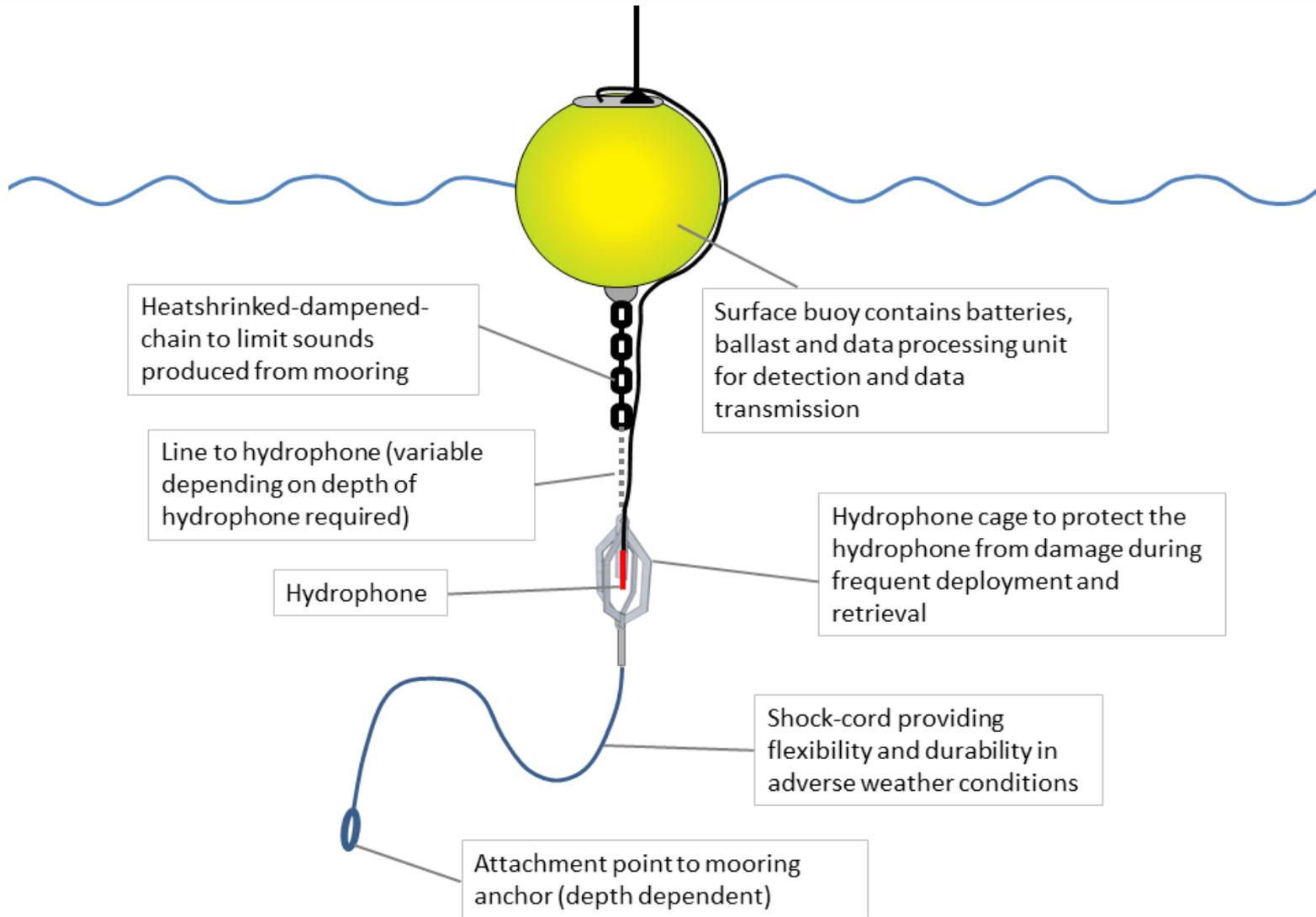
- We want to know how PAMBuoy compares to CPODs
- PAMBuoy and CPOD deployed simultaneously
 - Analysed data to be DPM like in CPODs



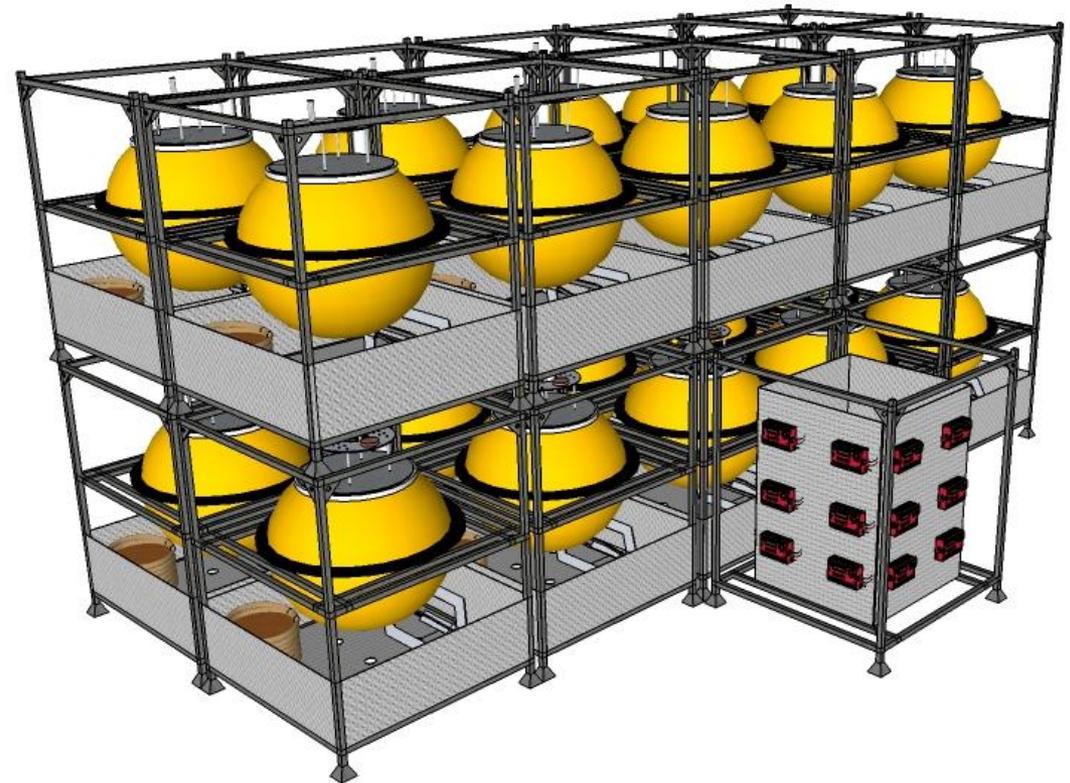
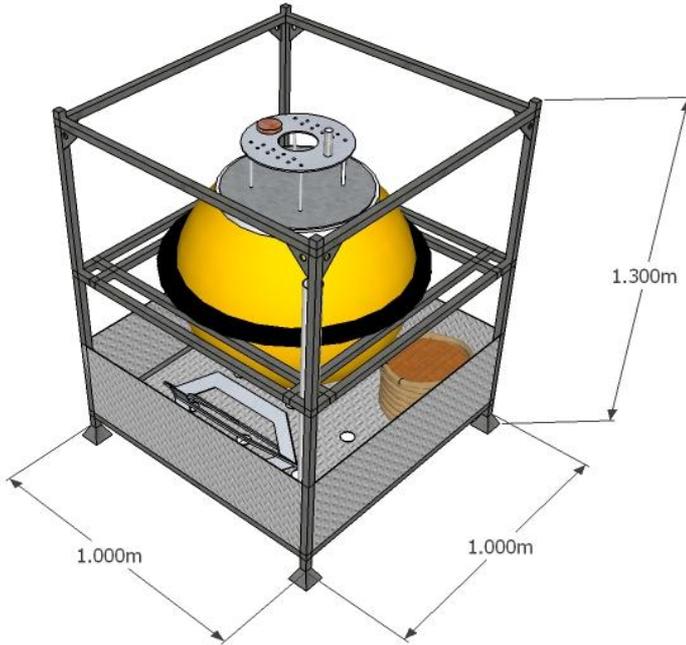
- **PAMBuoy = 686 DPM**
- **CPODs = 601 DPM**
- Interesting initial results



Moorings



Transportation



PAMBuoy™ Mitigate in action



PAMBuoy™ for Mitigation Summary

- PAM mitigation vs Visual MMO
- Real time data;
- **Highly efficient** porpoise detection algorithms;
- Automated notification system;
- Provides **audit trail** of mitigation decisions;
- Can improve the way mitigation is achieved



Thank you

