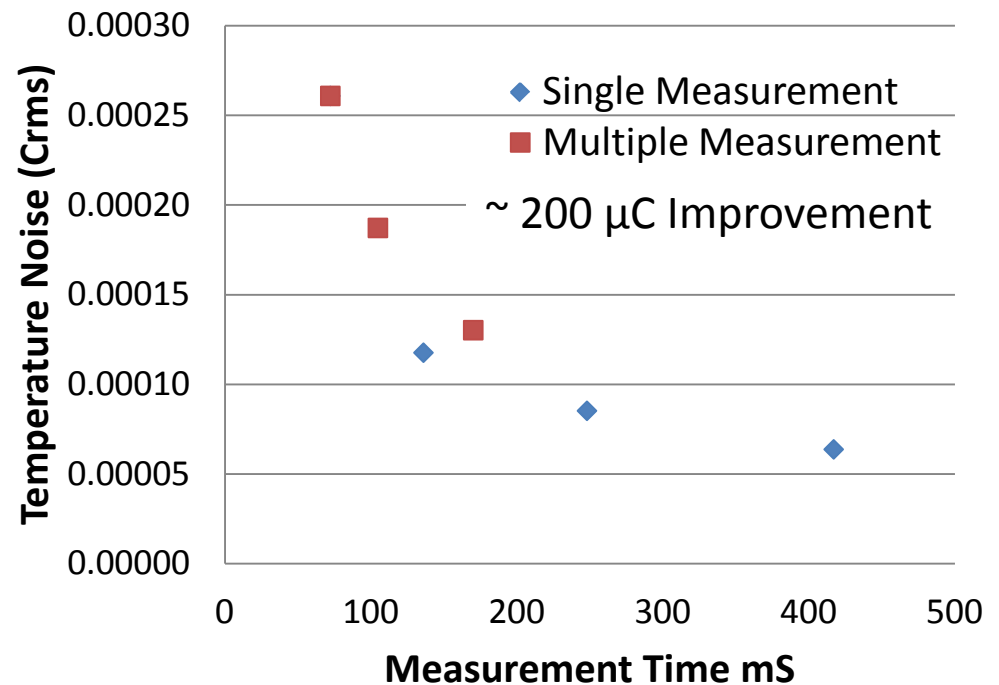


SBE Deep Float CTD

Summarized by Breck Owens
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AST-14
Wellington March 18-21

What are We Doing For Deep Argo? (Temperature)

- Currently meeting requirement
- Acquisition technique improves temperature noise performance
- Calibration apparatus
 - Minor Improvement



What are We Doing for Deep Argo? (Pressure)

- Extend screening to Deep Argo pressure
- Custom 7000 decibar sensor from Kistler
 - Many currently in field
 - Have received second generation for evaluation with improved internal construction
- Implement improved calibration of pressure sensor span for temperature sensitivity

What are We Doing for Deep Argo? (Conductivity)

- Verify mechanism through experiments with desiccant
- Hermitically enclose conductivity circuit board
- Test in-situ calibration of circuit excluding cell

Conclusions

- Temperature sensor appears to be adequate for Deep Argo
- 7000 dbar sensor from Kistler should be adequate. Will work to improve temperature correction for span (slope) term.
- Plan to use similar conductivity sensor to SB43, but work underway to understand positive drift and to hermitically seal conductivity circuit board.