

Breakout Session #1 - A Shared
Vision of Future Logistics
Monday a.m., 7 October 2013

Group 2

Diverse Group

ICECAPS PI, Toolick LTER PI, CPS employee,
Ocean drilling, USARC, physical oceanography,
expeditionary field work, ice sheets, Barrow
terrestrial ecology, Canadian Arctic,
Archaeology, Resilience, Ethnography, and
even... Budget Planner!

What does field work look like in the
future?

Increased utilization of technology

- Unmanned flight platforms (UAVS/UAS)
- Autonomous stations
- Undersea moorings, rovers, etc

Necessary for implementation

- Regulatory issues – FAA, EEZ's
- Standards-based plug and play integration
- Data dissemination tools, rapid data sharing
- Lack of communication network: underwater acoustics, inadequate bandwidth of polar satellite comms.
- Lower power
- Arctic hardening of equipment (best practices)

Logistical Efficiency Achieved through Scientific Integration

$$\text{Efficiency} = \frac{\text{Research Value}}{\text{Logistics \$}}$$

Increases research value by enhancing co-location of data collection, not just focused on logistics \$ decreases.

Requires improved roadmap for creating coordinated programs.

Ability to coordinate through central funding, permitting.

“Integrated Logistics for Integrated Science” ©

“Science does not drive the logistics and the logistics cannot not drive science. Interaction between the two results in highest value.”

Need for transparent mechanism for organizing a community to achieve programs like SHEBA, North Atlantic Biocultural Association, LAll, OAll.

Multi-Agency Coordination

- Tools in place for multi-agency funding
 - Use National Ocean Partnership Program

Fills in the spatial gaps (Russia)

- International coordination, and improved mechanisms for contracting to foreign entities.
- International funding calls
- Coordination around research platforms, vessels, research stations
- Active and engaged IARPC

A mix of research modes

- Station based
- Long term observing
- Ship based
- EXPEDITION BASED

Expedition Based Research

1. Technology does not replace boots on the ground – needs it more
2. Concern over human resources capabilities – not sure we are creating new Matthew Sturms, people don't even know duct tape doesn't work in the cold!
3. New PI/young researcher field training, apprenticeships
4. Risk aversion challenges

What Logistics Support is in Place?

- Still allowed to do own logistics
- Help with permitting