Details of the Survey

- Administered by ARCUS
- Advertised on ArcticInfo mail list
- Open 17 July through 7 August 2013 (3 weeks)
- Conducted online through surveymonkey.com

Objectives:
- Get broader input on issues for the workshop
- Help set workshop agenda
- Inform the workshop report and NSF
- 110 responses from the general population
- This presentation will serve as part of the workshop record
What disciplinary area best describes your primary research?

- Physical/Earth Sciences: 43.6% (48)
- Natural/biological Sciences: 31.8% (35)
- Applied sciences / Resource management: 5.5% (6)
- Interdisciplinary Sciences: 7.3% (8)
- Social Sciences: 9.1% (10)
- Other: 2.7% (3)
What domain of the Arctic system best describes your primary field of study?

- Marine: 29.1% (32)
- Freshwater: 7.3% (8)
- Terrestrial: 21.8% (24)
- Atmosphere: 9.1% (10)
- Wildlife: 10.0% (11)
- Natural resources: 10.0% (11)
- Social/humans: 1.8% (2)
- Interdisciplinary system linkages: 10.9% (12)
- Other: 10.0% (11)
Which of the choices best describes your level of experience with Arctic field work?

- Extensive experience: 52.7% (58)
- Significant experience: 32.7% (36)
- Little experience: 14.5% (16)
What kinds of research support and logistics do you utilize in your field work?

- Aircraft/helicopter support: 76
- Field camps: 65
- Ships/boats/submarines: 81
- Permanent field stations: 55
- Lab facilities, office space: 55
- Remote comms, data storage: 53
- Local housing: 51
- All-terrain vehicles, snowmachines: 50
- Long-term monitoring equip.: 45
- Radar/lidar/aerial photo./satellite: 42
- All Other Responses: 74
What logistics providers have provided support for your projects?
What funding agencies/organizations have provided your logistics funding?
Are there aspects of logistics that are currently working well?

- “Everything”
- Centralized logistics operations are fiscally responsible / economical
- Greenland field support: lodging, transport, cargo
- Barrow and Toolik support is good
- Field stations are well equipped
- SRI electronics / communications support
- Aircraft support / chartered flights / ANG / helicopter ops
- Support at sea is good
- Linking logistics to proposals
- Linkages with local communities/providers
What aspects of logistics support need to be changed or improved to best support Arctic science over the next 5-10 years?

- Providers more responsive/flexible to evolving research requirements
- Better communications between research and logistics
- Logistics better handled by individual project teams (no self perpetuating logistics empire)
- More experienced leaders for logistics providers
- Better logistics training for research teams / early career
- Better interagency coordination/funding to improve efficiency
- Too many regulations / requirements
- Improved consideration of local communities
- Support for international shipping, transportation, travel
- Better support for remote locations (non-hub)
- Icebreaker / submarine / helicopter / near-shore vessel availability
- More funding support for logistics
Do you think logistics capabilities have improved or degraded over the years?

**IMPROVED**
- Increased safety + efficiency
- Arctic more accessible
- Infrastructure has improved

**DEGRADED**
- More complex = cumbersome
- Cannot keep up with demand
- Too much paperwork/regulation

- **51%**
- **34%**
- **15%**

Workshop on Future Directions for Arctic Research Logistics

7 October 2013
Summary

➢ 110 respondents:
   ➢ Mostly physical/biological perspectives, but broad representation of different disciplines.
   ➢ NSF dominated, but others represented to some degree.
   ➢ Highly experienced.
➢ Generally FAVORABLE, but some areas need additional attention:
   ➢ **Opportunity**: Better training & support for younger investigators and logistics providers.
   ➢ **Efficiency**: Improved coordination and communication, interagency and international.
   ➢ **Flexibility**: System should adapt to evolving needs
   ➢ **Balance**: Consider appropriate balance between large hubs and smaller projects
   ➢ **Investment**: Big ticket items are often mentioned. Continued investments in infrastructure are needed to keep up with *increasing demand* for Arctic research (must be more efficient and/or increase budgets)