Breakout Session #2
Logistics Needs for Arctic Domains
Monday p.m., 7 October 2013
Ice Sheets

What is needed in the long term to do the best science

- **Expedition Science.**
  - More mobile on the ice sheet. Spatial heterogeneity with climate change on top. Get to places they haven't been before. Stay away from the south pole model that just has science from one community.
- **Scaleable Facilities**
  - Made larger or smaller as needed. Isi.
  - Will always need a centralized hub
  - Components of camp can move
  - Even fixed camps will have to be mobile in the future.

Logistics Limitations

- Preparation for post LC-130 years (end of life is 10 years) for access to the ice sheet.
  - Heavy lift airships
- New route to traverse in
  - Maintain the transition to GRIT?
  - Hovercraft
  - Mitigate the crevases
  - Renewables to reuse the need for fuel.
  - Bridge development.
  - Alternatives for GRIT
  - Traverse from a station.

Fostering Interdisciplinary Science

- 5 year warning…..
  - Make sure the communities are aware and are involved in planning of mobile camps going in ~5 years ahead.
  - Carve off money to jumpstart interdisciplinary science to add to an existing or planned project
  - More integration of science with logistics traverses.
  - Need dedicated interdisciplinary traverses for science.

Recommendations

- Make the stations mobile and scalable
- Identify alternative access to the ice sheet
- Prepare for the post LC-130 years
- Develop dedicated science traverses
- Improved interdisciplinary planning through a community based long-range science plan
- Move to alternative energy whenever possible to minimize logistics