

Breakout Session #3 - Platforms
Tuesday a.m., 8 October 2013
Alaska

international Collaboration and shared funding
collaboration by proximity should be encouraged
data policy for international satellite data
centralized permitting especially in AK

**incorporating local communities in data collection and instrumentation
management

feasible. 3 local guys operate the ARM site for DOE. Started
cleaning lenses, rotating people through Barrow. Now the local tech do
anything needed in the field, with high school degrees. Have to get past
the mind set that you have to have a PhD. You do have to pay
people. They don't work for free. A tech could be shared among multiple
projects. Hiring has to happen in the community, with funding coming
through the projects. Barrow: you can't just hire for individual projects. You
need to offer stable employment and create continuity across projects to
develop a skilled work force.

**Year-round access both to focus observatories and wider area dispersed
sites

**Mobile camp development (small boat/ship based, terrestrial summer and
especially winter)

we should talk about whether we have what we need for logistics support
or what we need to augment. Do we need to build another "Toolik"? Do
we need to build support for extended operations?

people have been using mobile camps since before there were
anatomically modern humans

we can do things now that you can't do when you're just camping and
washing dishes and cleaning the outhouse. You can do different science
when you have clean dependable electrical power.

modules in Greenland can be dropped in and support activity for several
years.

we don't know where the hot-spots will be over the next 20 years, so we should have a modular mobile support cube.

too variable, needs to be done per project.

camps need to be nimble, and have logistics personnel to handle the "living" part of the camp so we can do science.

in Matt Sturm's traverses there is no division of labor. Everybody does everything. but having the logistics personnel trained

CPS can provide summer camp managers; we could do winter if you want.

NOAA person: cal val issues in Barrow due to land/sea proximity; where else should we be basing observatories in the coming years?

biogeochemistry types want multiple measurements at one site; people interested in biodiversity might want distributed observations. Compromise between intensive system-level questions and distributed observations.

distributed observations can be funded and implemented any time. Do we need another Toolik? Overcrowding is changing the ecosystem.

hubs like Toolik and BEO are important but what we need to do is develop the spokes while maintaining the hub. The science being done should drive the recommendation. Is there a missing hub in AK? From ecosystems perspective would chose other sites (coastal plain, slope, mountains). Sites might be representative of different geologies, coastal and marine research support. Easier to access a variety of ecosystems from Nome.

**Barrow has no road access, you need helicopters, and they're based in Toolik, eating up flight time for transit. If funding were unlimited, Barrow would have its own helicopter. Big helicopters are unpopular with hunters.

**Decommissioning requirements for infrastructure

who owns gear that was installed for one short term project but utilized by many others. BEO Biocomplexity stuff for instance. Effectively become joint use. Cost benefit of leaving vs removing. Permit expirations force a

decision. Needs planning, ownership chain, and deadlines for reevaluation.

**Maintenance of existing facilities. Some of the Barrow buildings are deteriorating. Toolik has better dorms.

** Housing could also facilitate investigator interactions. Acute housing shortage in Barrow due to expanding oil company activity. Building a dorm and garage would put scientists out of the market. NARL dining hall lease runs out in 5 years and maybe the college doesn't want to use that site due to commute from town.

**GIS for planning, logistics, and site management; bounding boxes public, with precise sites under password.

BAID project invested in inventorying projects and legacy infrastructure. Becomes a networking tool; can work where other people have been working. ARMAP could be expanded to address some of these issues.

Rapid logistics response that doesn't require a year in advance (e.g. responding to large tundra fire)

Community data and metadata standards for all parameters; archiving for data products

Remote autonomous instrumentation- Autonomous polar system workshop
Communication and bandwidth and power

<http://www.iridium.com/about/IridiumNEXT.aspx>

Best practices for station management from INTERACT soon to be released