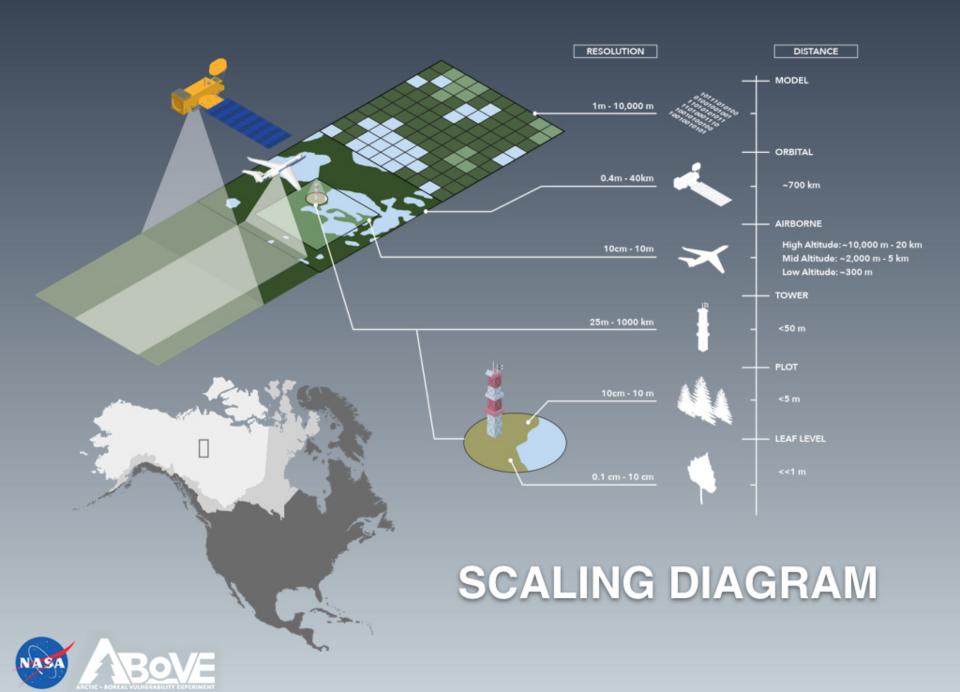
Data Management during the Arctic Boreal Vulnerability Experiment

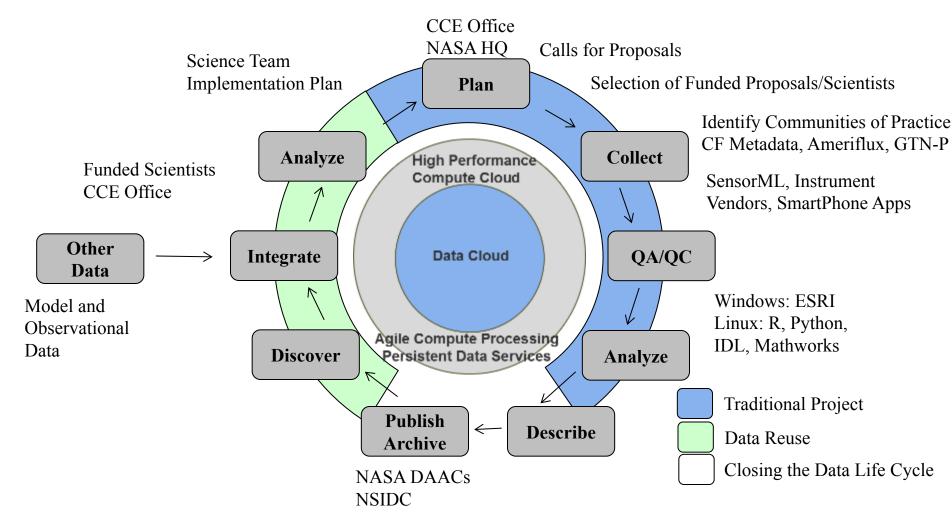
Peter Griffith
Chief Support Scientist
Carbon Cycle & Ecosystems Office
NASA Goddard Space Flight Center
With
Liz Hoy, Dan Duffy, and many many others







Section 4.3 Data Management Life Cycle



Augmented from Rüegg et al 2014 in Front Ecol Environ





Section 2.4 Data Policy

 Sharing Data, standard metadata and data product formats, Credit to Data Collectors, Protecting the rights of students, Fundamental Principles for the Use of Indigenous or Local Knowledge, Archive, Sharing Models





Section 2.4 Data Policy

9. Acknowledgements

Each publication or presentation arising from participation in ABoVE should acknowledge all organizations that provided funding, data, and/or logistical support. Use Grant Numbers!

ABoVE investigators should also include an acknowledgement in each publication or presentation arising from participation in ABoVE. The wording shall be similar to the following: "This study was part of the Arctic Boreal Vulnerability Experiment."

Upon publication of results, investigators should send the CCE Office an electronic copy of the publication.





Section 2.4 Data Policy

10. Resolving conflicts over data and the data policy.

Conflicts over the interpretation of this Data Policy, or its implementation, will be resolved at the lowest level possible within the science team, who should refer to the American Geophysical Union Policy for Scientific Integrity and Professional Ethics (2013). Direct resolution of issues between investigators is preferred; the CCE Office and or sponsoring agencies may become involved if resolution cannot be reached.





Long-tail data during ABoVE

- Engage existing methodological communities of practice whenever possible
- Develop methodological guidelines where they don't exist
- Use ORNL DAAC best practices













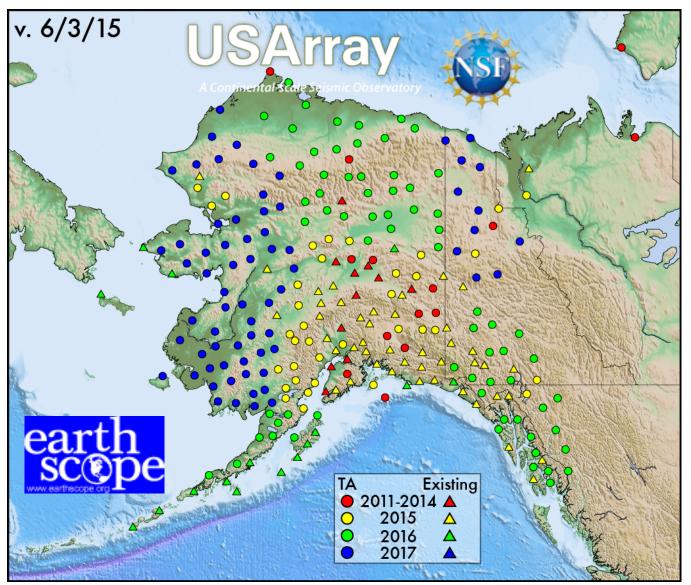








Transportable Array Deployment to Alaska and Western Canada

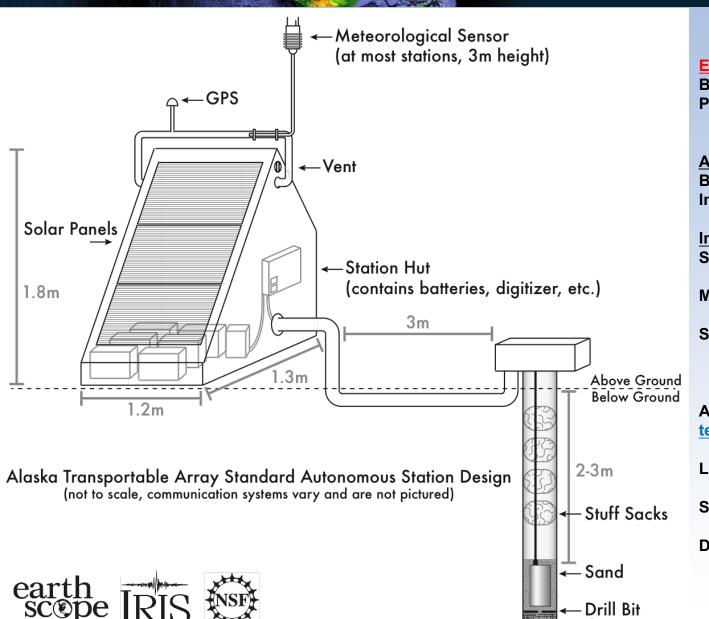








The Swiss Army knife



Equipment & Instruments

Basics:

Power, shelter and data comms

Added:

Barometric Pressure Infrasound

In Alaska:

Strong Motion Instruments

Meteorlogical Packages

Soil Temperature profilers

And applied the observational technique in other fields;

Landslide detection

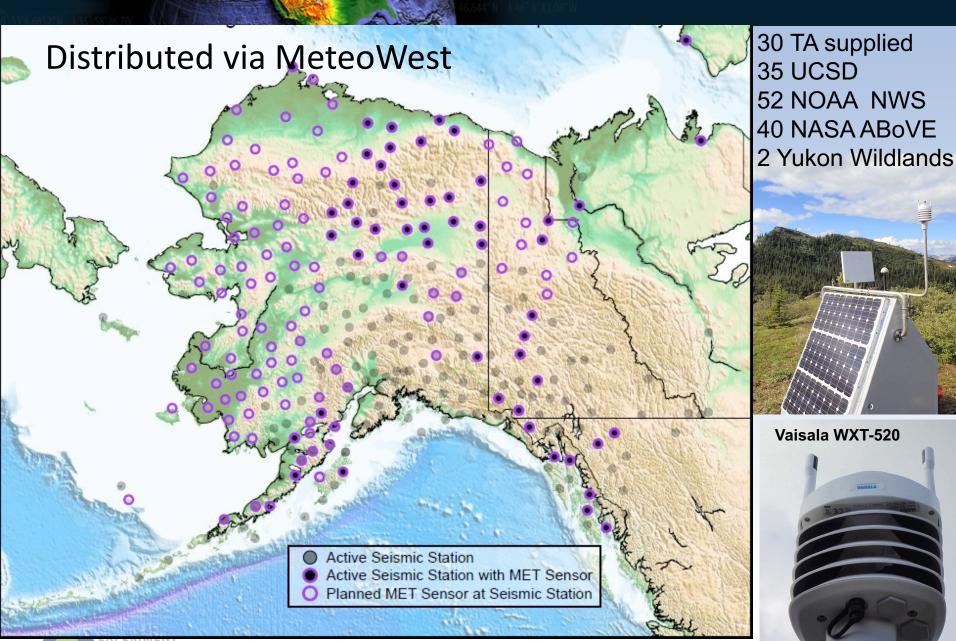
Sea Ice thickness monitoring

Distributed barometric pressure



earth scepe

Met sensors in AK



ABoVE shares data with others





NSF Arctic Data Center











Section 4.1 Sites and Measurements for ABoVE Defined Locations

Location hierarchy	Required	Possible Values
domain	yes	core, extended, circumpolar, other
state/territory/p rovince	yes	AK, YK, NWT, NU, BC, AB, MB, SK
grid	yes	ABoVE Defined Grid Cells
region	yes	North Slope, Interior, YK Delta, SewPen, Great Slave Lake, Banks Island
locale	if applicable	Fairbanks, Barrow, Healy, Council, Nome, Yellowknife, Ft. Providence, Hay River, Cambridge Bay
administrative area	if applicable	Denali NP, Wrangells St. Elias, CHARS Watershed, Toolik, BNZ
site	if applicable	Ameriflux_sitename, APEX, Investigator_sitename, Dalton_Highway_xx_m, Highway_xx_k, Wildfire_event_name
subsite	if applicable with site	plots, sample locations, manipulations
transect	if applicable	airborne, ground





Section 4.1 Sites and Measurements for ABoVE Defined vocabulary of measurements

ABoVE Measurements List by Theme

Defined vocabulary of measurements organized by Measurement Theme. <u>Download measurements (.xls)</u>

Wildlife, Vegetation, Disturbance, Carbon Dynamics, Hydrology , Weather, Snow, Permafrost, Ecosystem Services, Satellite Remote Sensing, Airborne Remote Sensing



Section 4.2 ABoVE Standard Projection and Reference Grid

Standard Projection

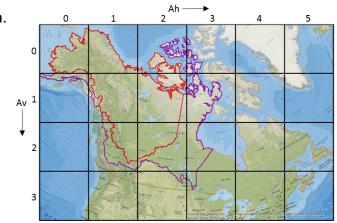
The projection for use and archiving of geospatial data products for the study domain is the Canada Albers Equal Area Conic projection

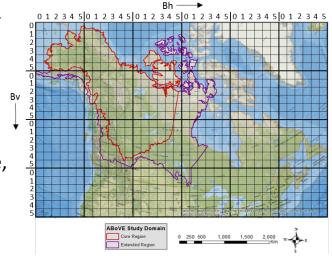
Reference Grid

A grid for raster-based products derived b. for the study domain (does not apply to circumpolar datasets)

Citation

Loboda, T.V., E.E. Hoy, and M.L. Carroll. 2017. ABoVE: Study Domain and Standard Reference Grids. ORNL DAAC, Oak Ridge, Tennessee, USA. http://dx.doi.org/10.3334/ORNLDAAC/1367







Sites & Measurements



