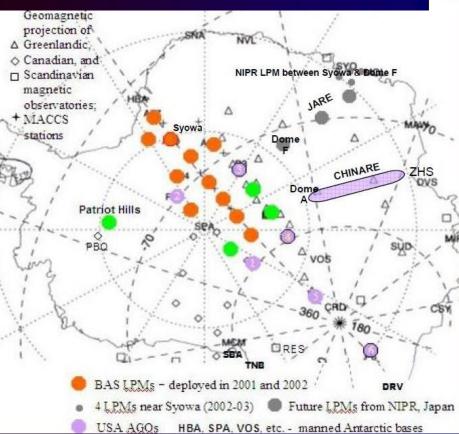
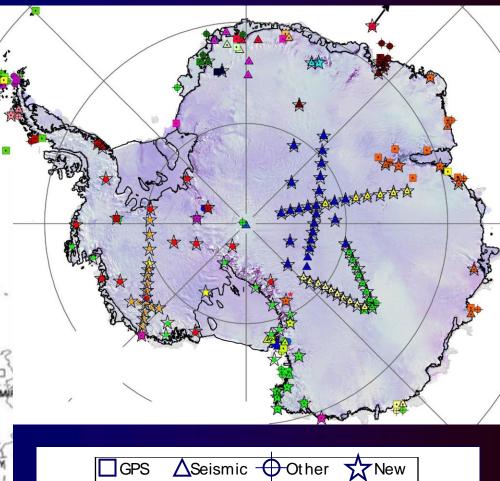
**POLENET** and Geospace.net

U.S. Antarctic Program

## Earth Sciences (potential overlap) Aeronomy and Space Physics





National

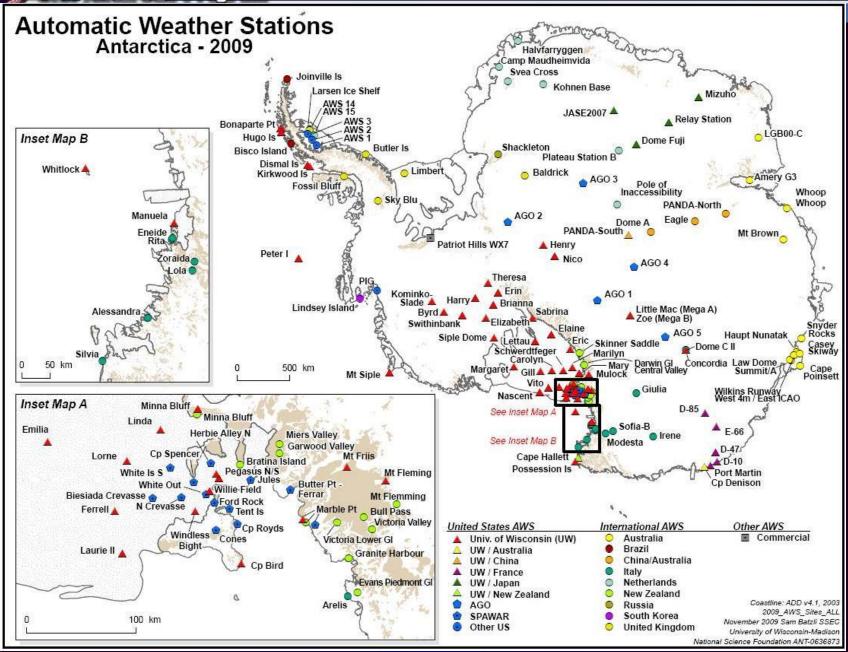
Science Foundation

GPS	∆Seismic	Other	New	
Australia	Chile	Ċhina	Japan	
New Zealand	Belgium	Ukraine	Norway	
Italy	India	Spain	South At	
Germany	Finland	France	Sweden	
U. K.	Argentina	Poland	United S	





**J.S. Antarctic Program** 

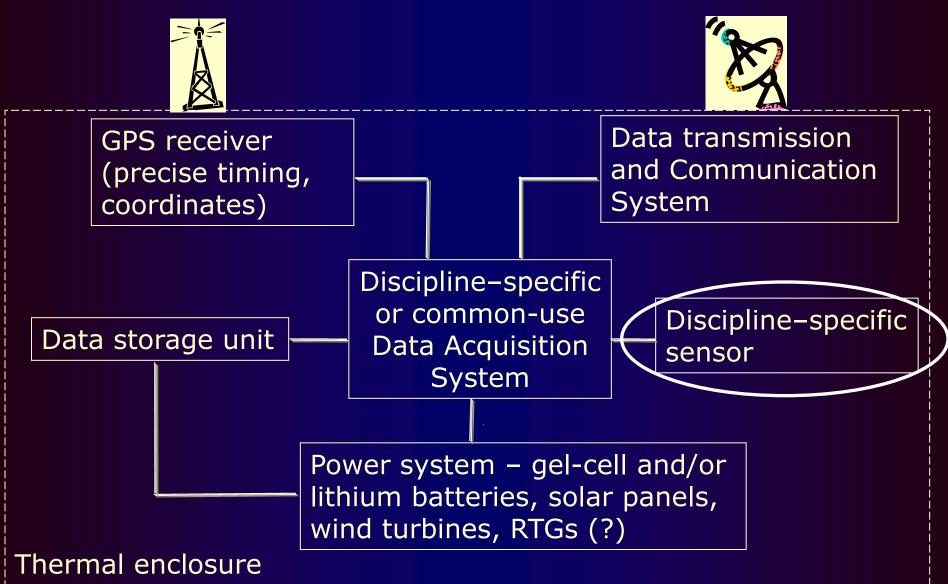


# Autonomous Research Station

National Science

Foundation

**Basic Block Diagram** 

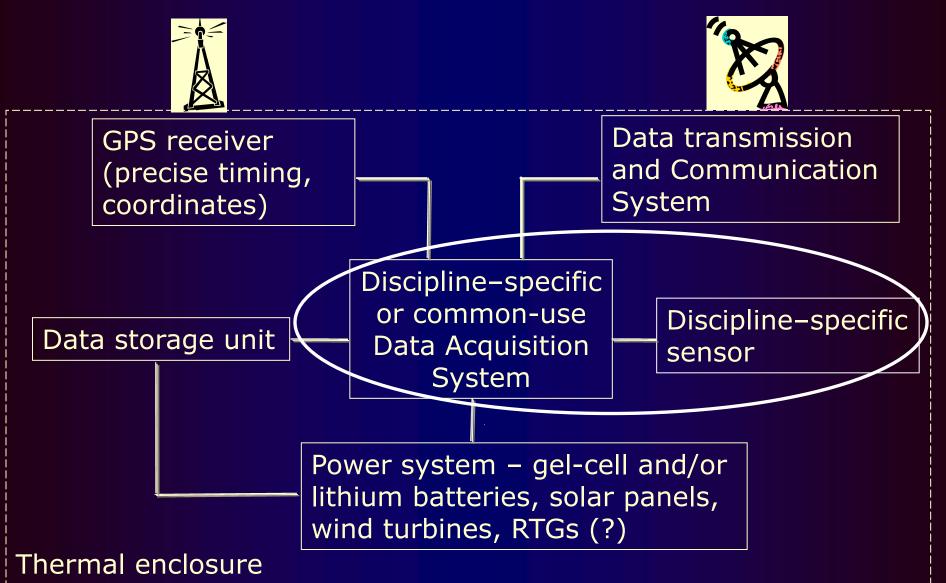


# Autonomous Research Station

National Science

Foundation

**Basic Block Diagram** 



#### **U.S. Antarctic Program**



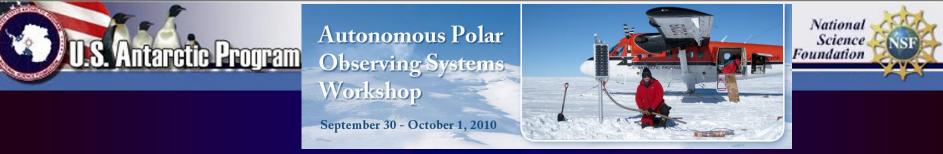
Autonomous Polar Observing Systems Workshop

September 30 - October 1, 2010



# Workshop's scope:

Balanced disciplinary discussion of how we can encourage collocation of common research sites for different Antarctic research programs.



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Balanced disciplinary discussion of how we can encourage collocation of common research sites for different Antarctic research programs.

### Within this context we hope the assembled group would discuss:

- Cross-cutting science that would be enabled by common sites,
- Polar autonomous instrumentation that would have interdisciplinary benefits,
- Leveraging of common logistical needs, and
- Ways to keep an active dialogue going amongst Antarctic research communities to better integrate common research sites into future planning.



<u>Challenges for proposing and maintaining autonomous</u> <u>observing networks in the Polar Regions:</u>

- What are overarching outstanding scientific objectives (goals, questions) that require middle -and large-scale autonomous observing networks?
- What is expected life span for these networks: 2-3 years addressing very specific problems or longer? ... but how longer – studying trends in upper atmosphere over 11-year solar activity cycles, maintaining longterm research observations of climate change... collecting better data/statistics on Antarctic continent rebound... what else?
- Can these objectives overlap the Atmospheric, Geospace, and Earth science disciplines?