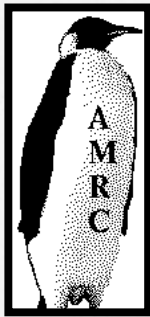
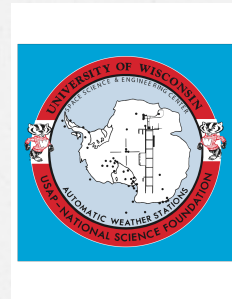


AWS Field Season Plans for 2013-2014 ...and Beyond

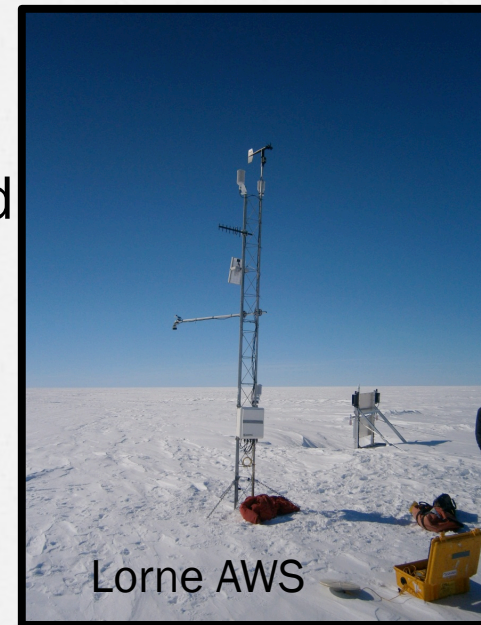
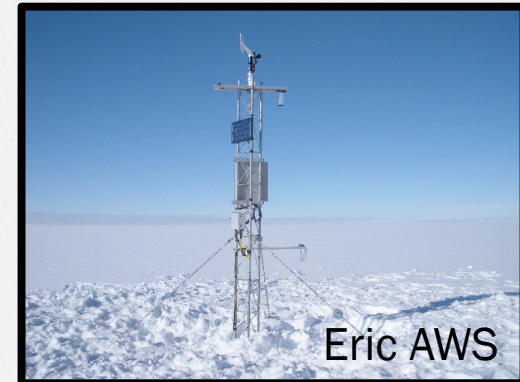


Matthew A. Lazzara, PhD.
Antarctic Automatic Weather Station Program
Antarctic Meteorological Research Center
Space Science and Engineering Center
University of Wisconsin-Madison



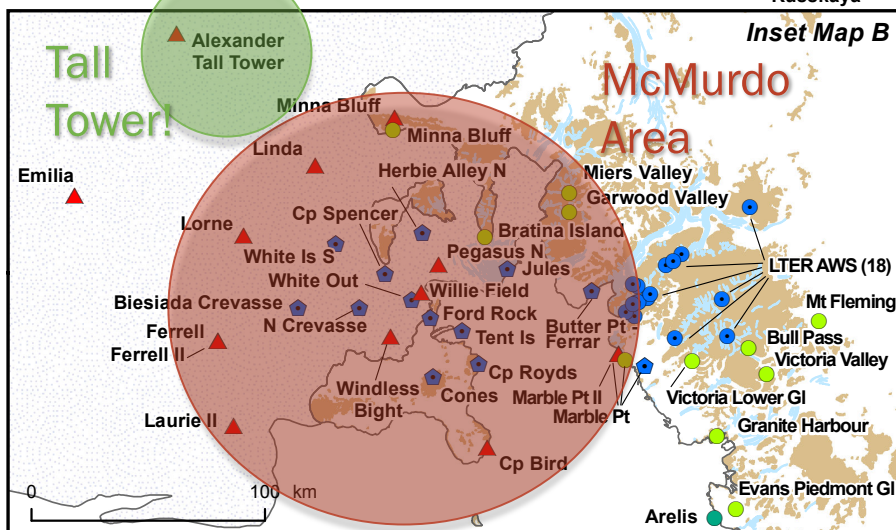
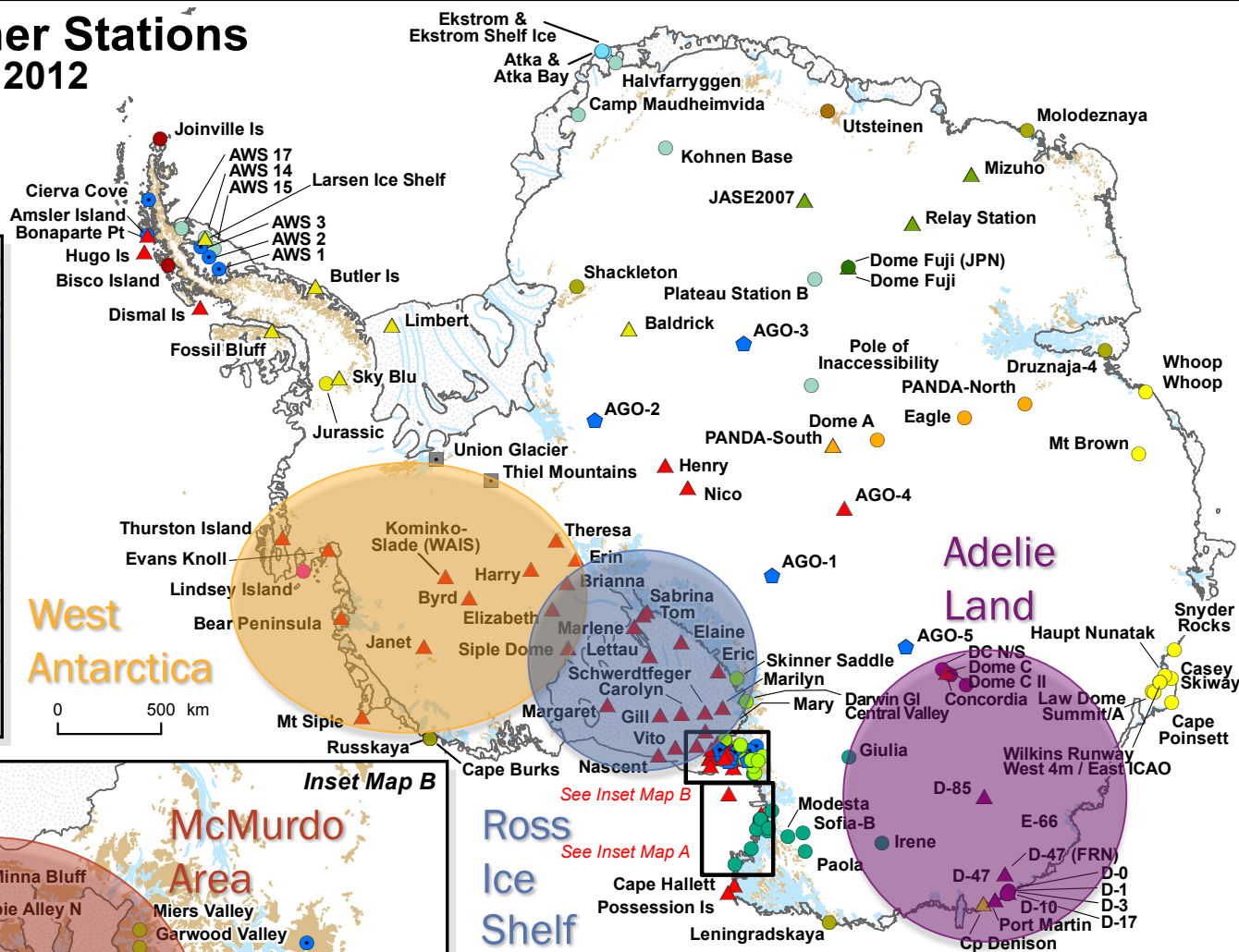
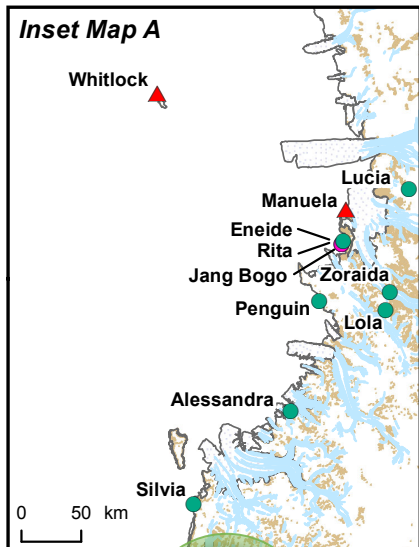
Outline

- ★ 2013-2014 Field Season Plans
 - ★ Alexander Tall Tower!
 - ★ West Antarctica
 - ★ Ross Ice Shelf
 - ★ McMurdo Area
 - ★ Adelie Land/East Antarctica
- ★ 2014-2015 Field Season Plans and Beyond...
 - ★ More of the above...
 - ★ South Pole region & East Antarctica
 - ★ Cape Hallett
- ★ AWS Staff/Personnel Changes...



Automatic Weather Stations

Antarctica - 2012



United States AWS

- ▲ Univ. of Wisconsin (UW)
- ▲ UW / Australia
- ▲ UW / China
- ▲ UW / France
- ▲ UW / Japan
- ▲ UW / New Zealand
- AGO
- SPAWAR
- Other US

International AWS

- Australia
- Belgium/Netherlands
- Brazil
- China/Australia
- France
- Germany
- Italy
- Japan
- Netherlands
- New Zealand
- Russia
- South Korea
- United Kingdom

Other AWS

- Commercial

Coastline: ADD v4.1, 2003

2012_AWS_Sites_ALL

August 2012 Sam Batzli SSEC

University of Wisconsin-Madison

National Science Foundation ANT-0944018

Alexander Tall Tower!

- ★ Tower inspection
- ★ Re-measure instrument heights
- ★ Complete Communication Change
 - ★ Moving to Iridium
 - ★ All levels to be available in real-time
 - ★ All data also recorded
- ★ Observing period of local measurements



Note to:
John - Melissa
Bring extra
food in case...

West Antarctica

- ★ Two new AWS:
 - ★ Hollick-Kenyon Plateau
 - ★ Near old Siple Station area
- ★ AWS Repairs:
 - ★ Thurston Island
 - ★ Janet
 - ★ Theresa
 - ★ Harry
- ★ Other possibilities:
 - ★ Elizabeth
 - ★ Repair
 - ★ Siple Dome
 - ★ Move closer to the skiway
 - ★ Brianna
 - ★ Removal
 - ★ May never work out due to crevasses



Ross Ice Shelf

★ Repairs:

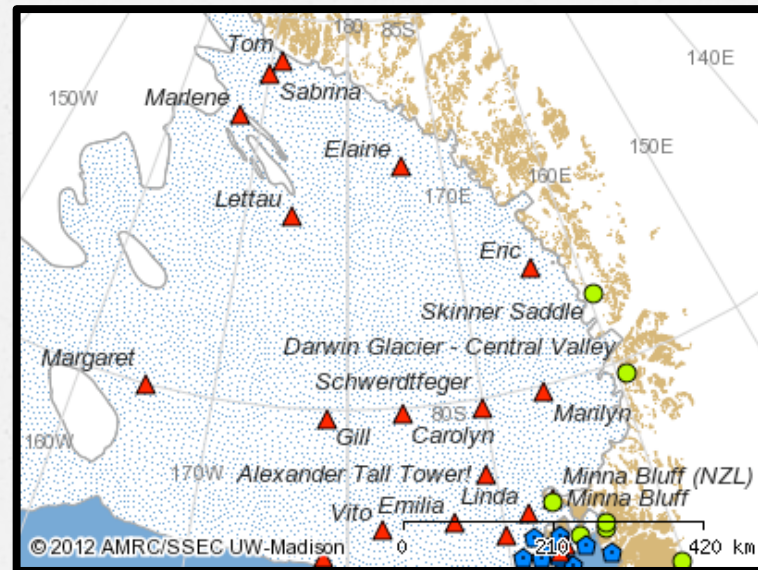
- ★ Vito
- ★ Margaret
- ★ Elaine
- ★ Emilia
- ★ Lettau

★ Removals:

- ★ Eric
- ★ Marlene

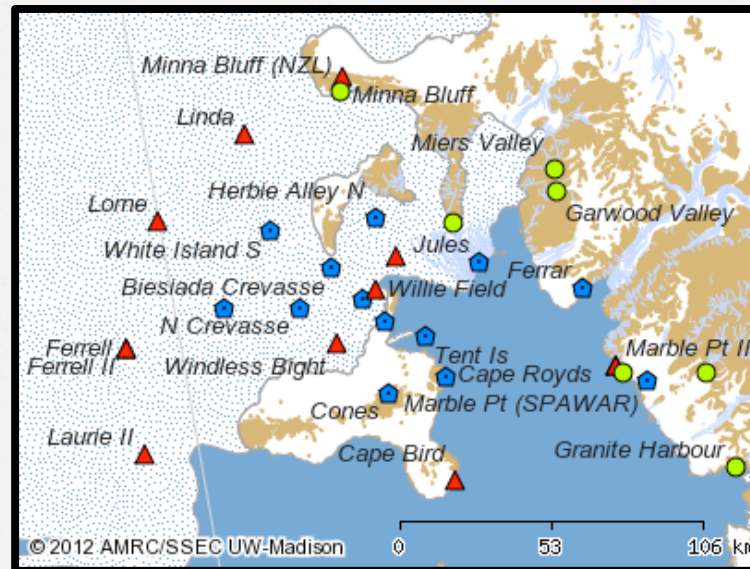
★ Possible visit:

- ★ Tom



McMurdo Area

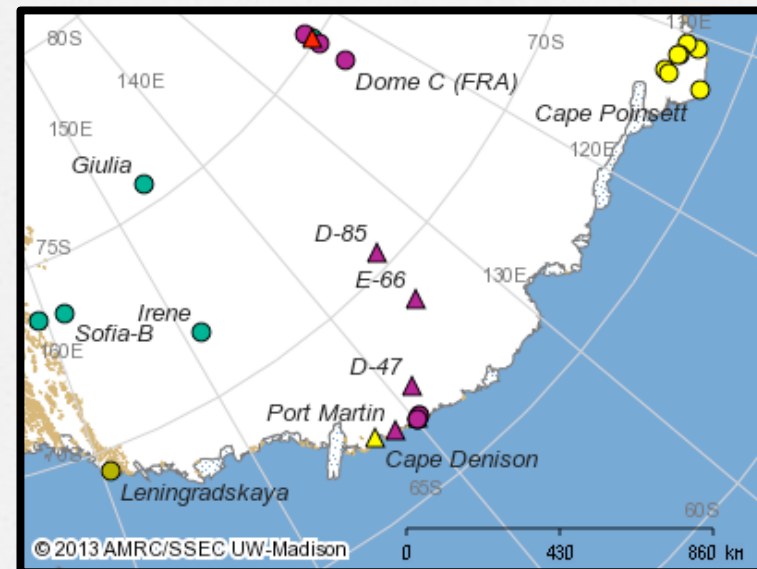
- ★ Repairs:
 - ★ Cape Bird
 - ★ Lorne
 - ★ White Island
 - ★ Marble Point
 - ★ Minna Bluff
 - ★ Laurie II
 - ★ Willie Field
 - ★ Windless Bight
- ★ Convert to Freewave communications:
 - ★ Ferrell
 - ★ Linda
 - ★ Pegasus North



Note to Lee:
Get the
Wrench that
Seefeldt left
at Windless
Bight... ☺

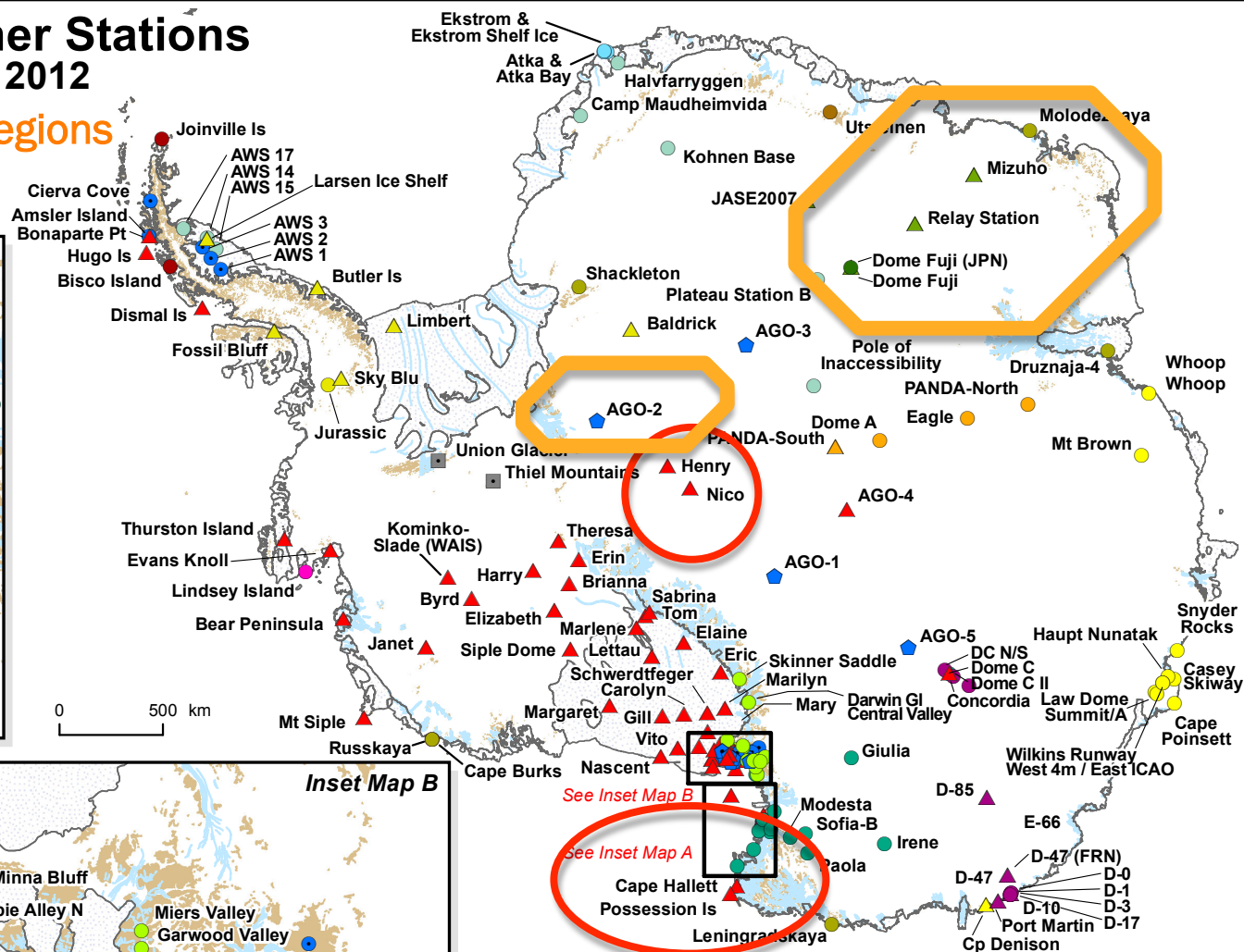
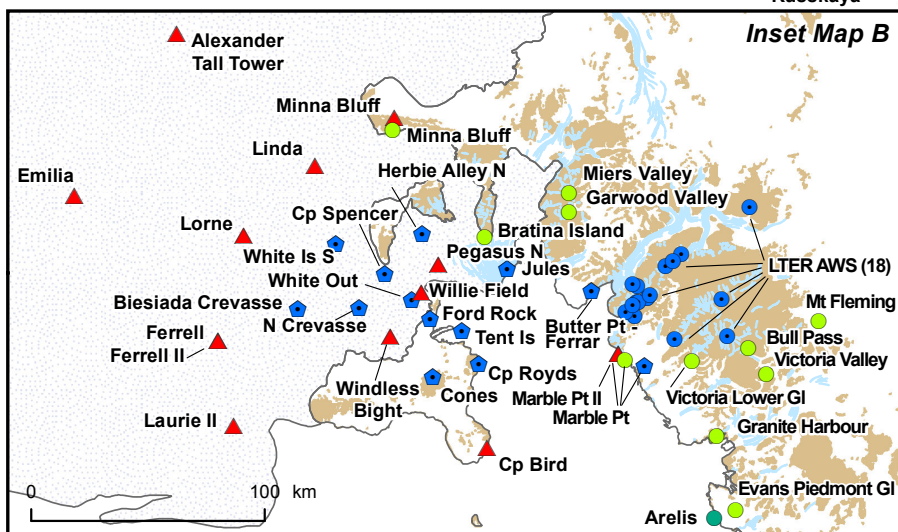
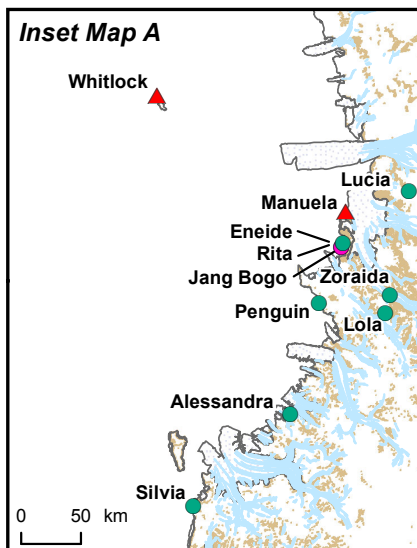
Adelie Land/East Antarctica

- ★ Replace AWS:
 - ★ D-10
 - ★ D-47
- ★ New electronics core:
 - ★ D-85
- ★ Raise:
 - ★ Dome-C II
- ★ New AWS:
 - ★ Port Martin or Cape Denison



Automatic Weather Stations Antarctica - 2012

Future Field Work Regions



United States AWS

- ▲ Univ. of Wisconsin (UW)
- ▲ UW / Australia
- ▲ UW / China
- ▲ UW / France
- ▲ UW / Japan
- ▲ UW / New Zealand
- AGO
- SPAWAR
- Other US

International AWS

- Australia
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- Germany
- Italy
- Japan
- Netherlands
- New Zealand
- Russia
- South Korea
- United Kingdom

Other AWS

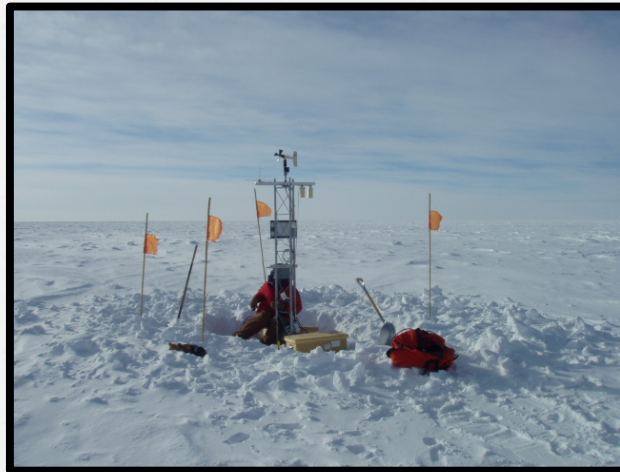
- Commercial

Coastline: ADD v4.1, 2003
2012_AWS_Sites_ALL
August 2012 Sam Batzli SSE
University of Wisconsin-Madison
National Science Foundation ANT-0944018

2014-2015 & Beyond... Planned...

South Pole

- ★ Visit
 - ★ Nico AWS
 - ★ Henry AWS



Cape Hallett

- ★ Cape Hallett AWS
 - ★ Data recovery
 - ★ Gauge ocean impact on sensors, etc.

...& anything NOT completed in 2013-2014

Trying to keep one AWS per "region" in working order

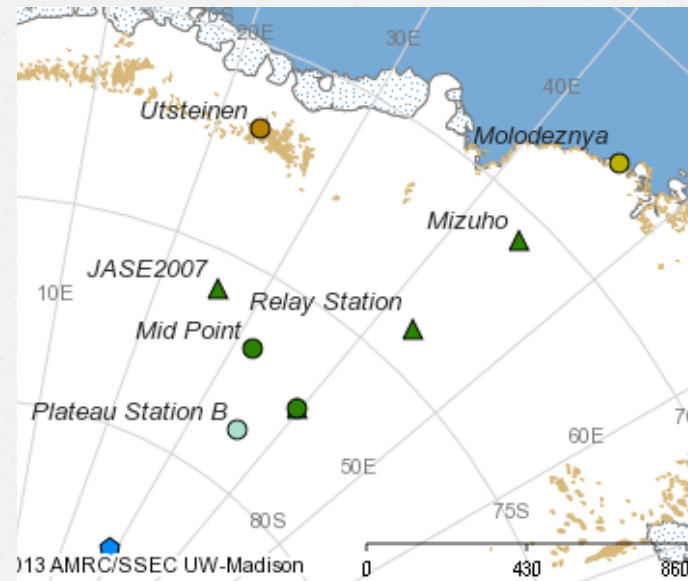
2014-2015 and Beyond...

Possibilities ??

AGO-2 ??

- ★ Already UW AWS at AGO-4
- ★ Pending the future funding of the AGO program
- ★ Are the AGO sites of value?
 - ★ Already a 20+ year of some observations...
 - ★ (discussion topic this afternoon)

UW AWS in Enderby Land



AWS Personnel & Staff Changes

- ★ Linda Keller
 - ★ Retires 2 August 2013 after
 - ★ Emeritus Status
 - ★ Will continue collaborations with the AWS team
- ★ Jonathan Thom
 - ★ Leaving the AWS team
 - ★ Will work with Ankur Desai in UW-AOS
 - ★ ...on Tall Tower AWS in Northern Wisconsin
 - ★ He will be handy in AO&SS building for consulting
 - ★ Lee Welhouse and Dave Mikolajczyk:
 - ★ Will be the primary AWS Field team members

Note from
George:
Free
clipboards
in 951 ☺

Thank you!

Further discussions
this afternoon!

This material is based upon work
supported by the National
Science Foundation, grant
#ANT-1245663.

