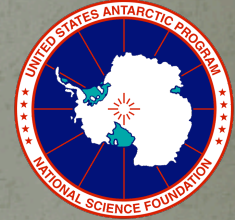


THE 2015-2016 ANTARCTIC AUTOMATIC WEATHER STATION NETWORK FIELD PLAN



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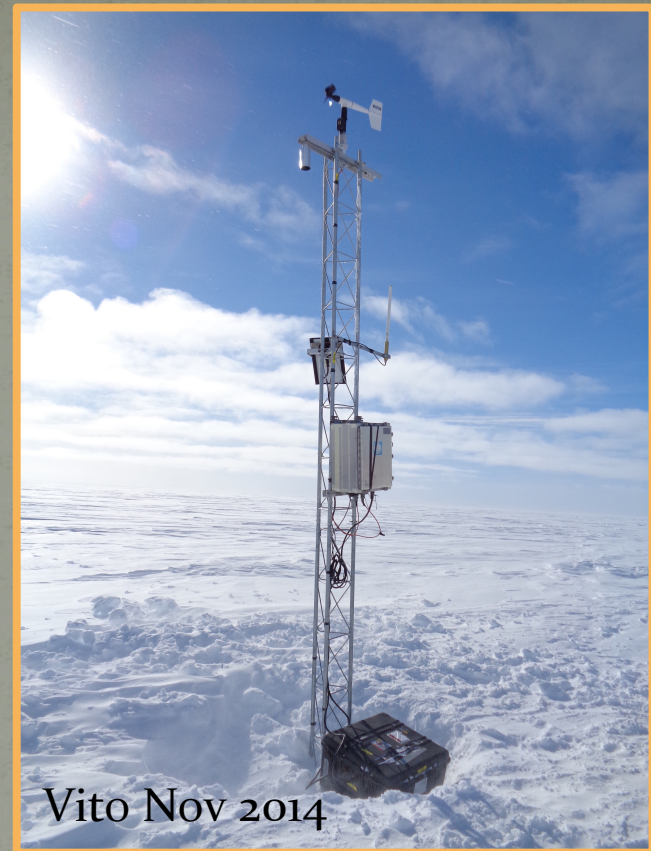
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Outline

- Work Based from:
 - McMurdo Station
 - South Pole Station (Cancelled?)
 - West Antarctica
- Collaborations:
 - Japan
 - France
 - BAS
 - Mawson's Hut Foundation
- Legacy AWS Calibration
- ... and Discussion on Future AWS Cyberinfrastructure



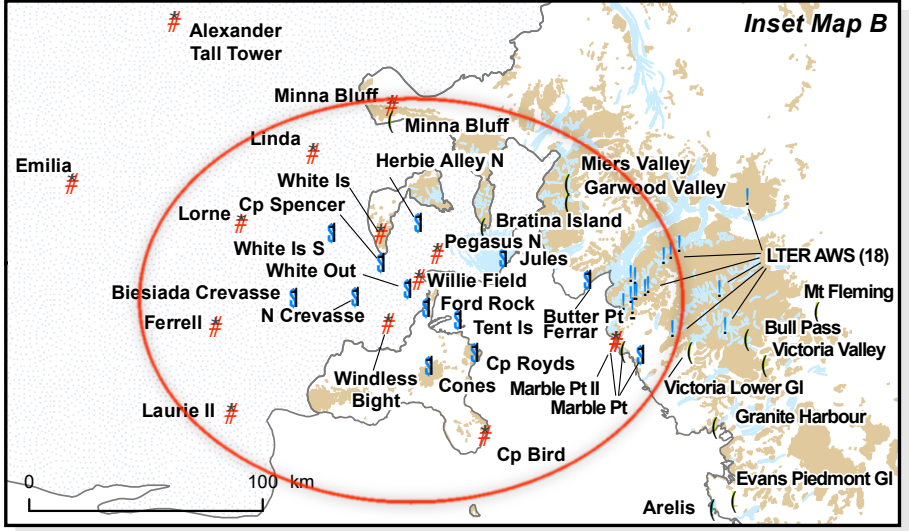
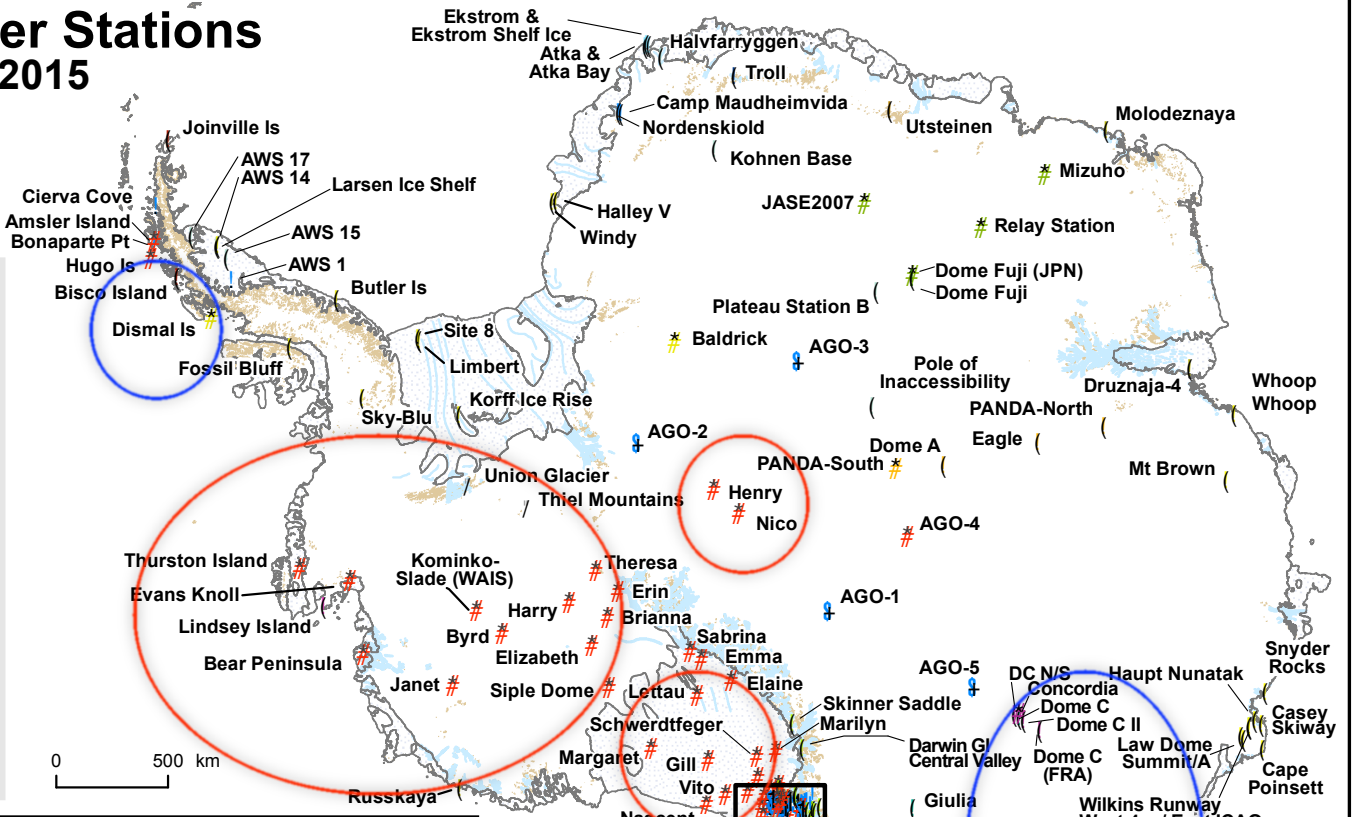
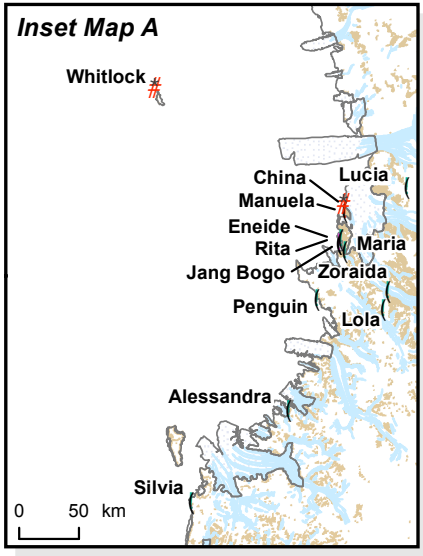
The 2015-2016 Field Team

- The “A” Team:
 - Dave Mikolajczyk
 - Mark Seefeldt
- The “B” Team:
 - Lee Welhouse
 - Carol Costanza
- Collaborators:
 - Rosey Grant et al.
 - Philippe Dordhain et al.
 - Others TBD ?



The 2014-2015 Field Team

Automatic Weather Stations Antarctica - 2015



United States AWS		International AWS	
#	Univ. of Wisconsin (UW)	(	Australia
*	UW / Australia	(	Belgium/Netherlands
*	UW / China	(	Brazil
*	UW / France	(	China
*	UW / Japan	(	China/Australia
*	UW / New Zealand	(	Finland
*	UW / United Kingdom	(	France
+	AGO	(	Germany
+	SPAWAR	(	Italy
!	Other US	(	Japan
		(	Netherlands
		(	New Zealand
		(	Norway
		(	Russia
		(	South Korea
		(	United Kingdom
		(	<u>Other AWS</u>
		(	Commercial

Alexander Tall Tower! AWS

- To do list:
 - Guy wire check
 - Raise lowest levels
 - Re-measure heights



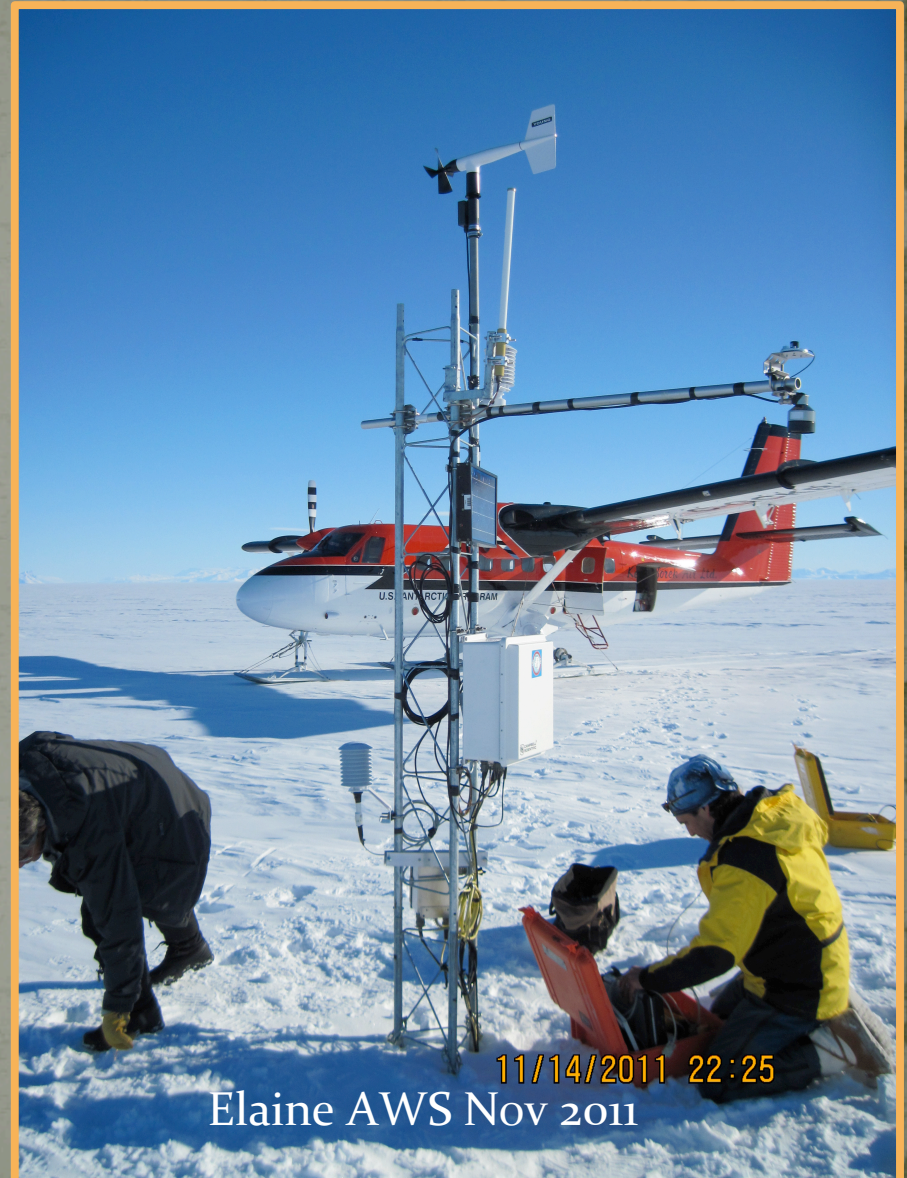
Vito & Emilia

- Vito:
 - Replace bad sensor
 - Replace core electronics with a AWS2B system
- Emilia:
 - Replace core electronics with a AWS2B system



Elaine & Margaret

- Elaine AWS:
 - Replace the RH sensor
 - Back up the station
- Margaret AWS:
 - New extension cables
 - New tower sections
 - Station Raise



Nascent AWS

- Removal
 - Low priority
 - Not much is working
 - Recovery of equipment, sensors, etc.
 - Iceberg project grant has long since ended.

Nascent AWS 2006



Ross Island Area

- Raise the station (7 foot sections) and power system:
 - Lorne AWS
 - Ferrell AWS
 - Windless Bight
- Inspection & tighten guy wires:
 - Marble Point
 - Minna Bluff
- VHF AWS Station Check-up:
 - Linda (including pressure sensor and possible raise)
 - Willie Field
 - Pegasus North

Cape Hallett AWS

- Finish Converting AWS to Iridium



Cape Hallett AWS November 2014

West Antarctica

- Siple Dome – Move the station closer to the base camp
- Byrd – Raise the station
- Harry – Replace with new AWS
- Thurston Island – Repair Aerovane
- Evans Knoll – Repair Aerovane and fix pressure issues
- Erin – Raise the station (low priority)
- Brianna - Removal (unlikely – last year to attempt)
- Kominko-Slade – Raise the station

- New: Austin AWS and Kathie AWS



South Pole Area

- Nico AWS
 - Replace Electronics & Wind Sensor
- Henry AWS
 - Checkup
 - Aerovane repair

Nico AWS



Henry AWS



Cancelled!

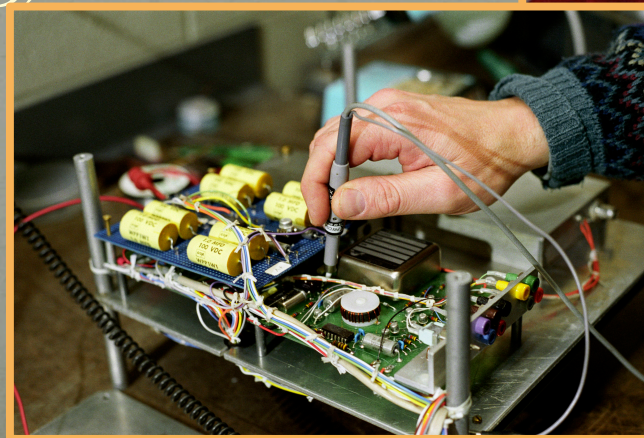
Collaborations

- Japan –
 - No activities planned this year
 - Plans possible for 2016-2017 - TBD
- France – IPEV –
 - Port Martin AWS future uncertain
 - D-10 to change tower/mast type
 - 2 batteries systems (??)
 - *See Presentation by Charles!*
- UK – BAS
 - Repair/replace Dismal Island AWS
- Australia – Mawson's Huts Foundation
 - Removal of Cape Denison AWS



Legacy AWS Calibration

- Post Field Engineering Analysis
- On-going effort
 - Not formally funded!
 - No timeline
 - Super important!!
 - Crucial to the success of the Central West Antarctic Warming paper (Bromwich et al., 2013)
- *See George Wiender!*



AWS Cyberinfrastructure

- Coming in one year:
 - Registration requirement for AWS observations
 - Version of AWS observation (e.g. 1.0, 2.1, etc.)
 - Future distribution methods are in flux:
 - Web
 - FTP (?)
 - rsync
- Benefits:
 - Updates
 - News
 - Data Access

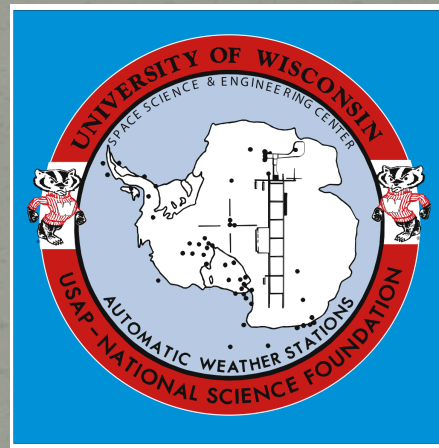




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Boulder



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Thank you! Questions?

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