

Automatic Weather Stations

Plans for 2006/2007

Web site at

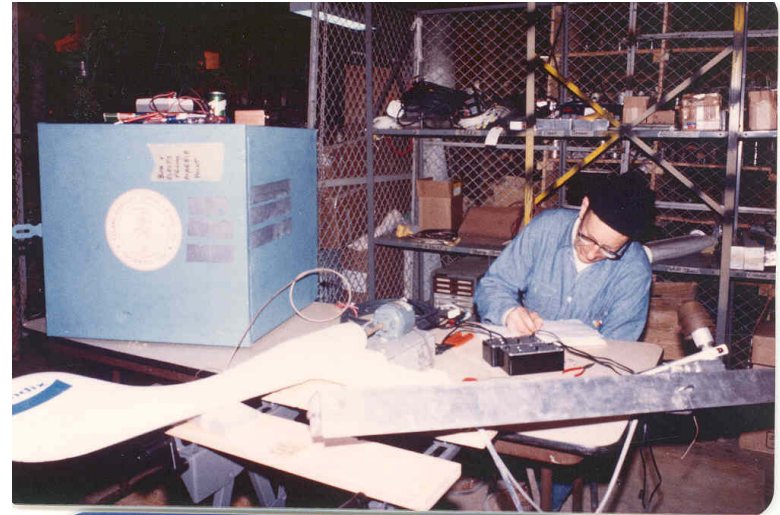
<http://amrc.ssec.wisc.edu/aws.html>

[http://amrc.ssec.wisc.edu/
~georgew/aws_info.html](http://amrc.ssec.wisc.edu/~georgew/aws_info.html)

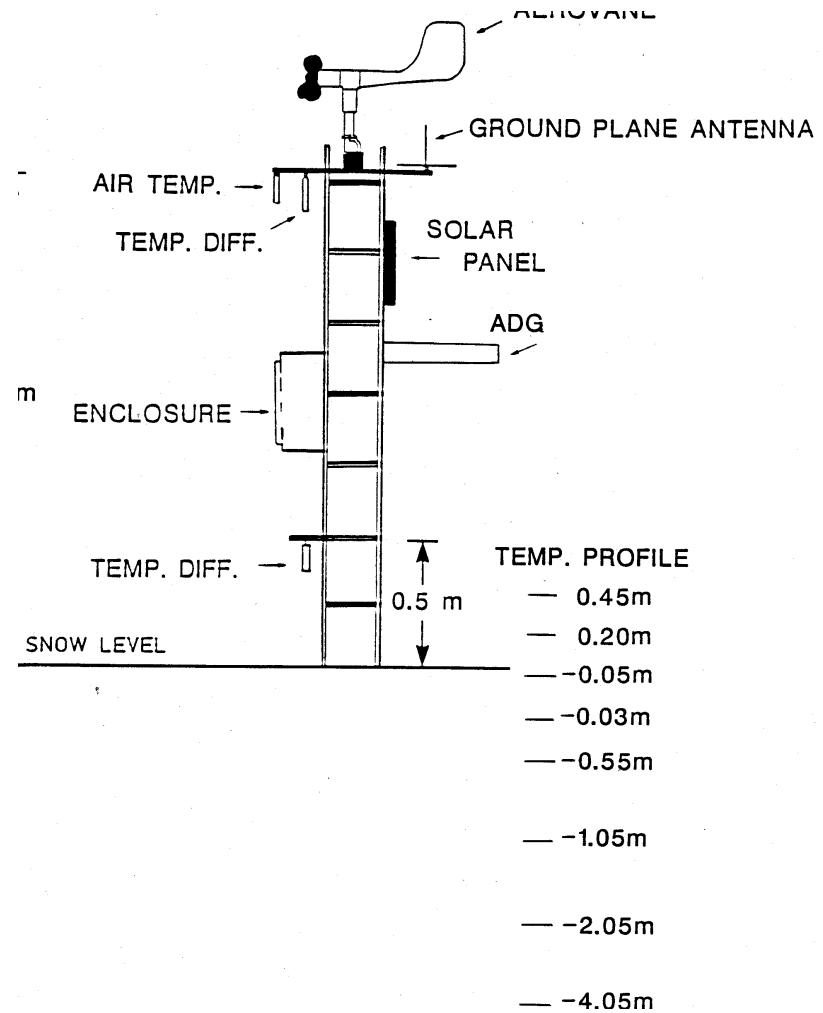
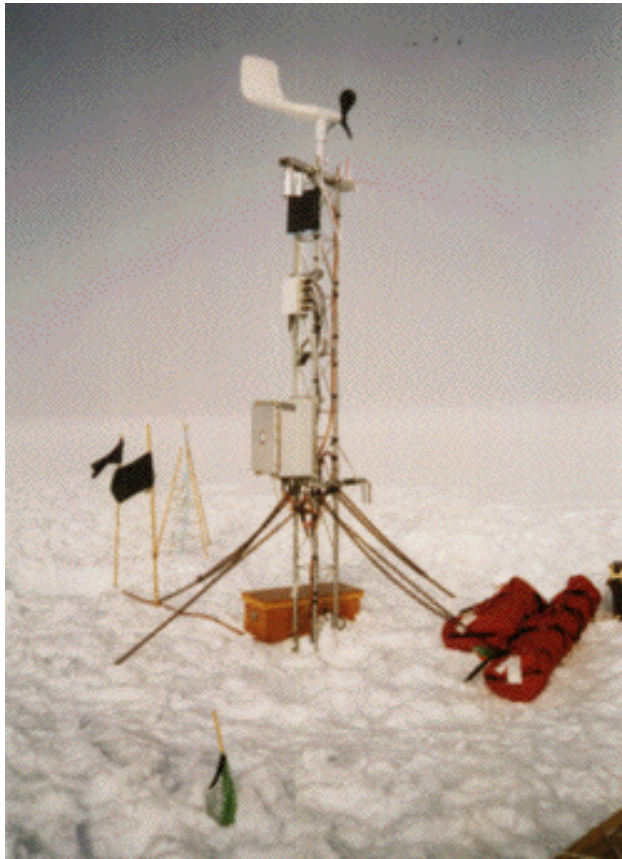
Charles Stearns, University of Wisconsin – Madison

- Automatic Weather Station Pioneer

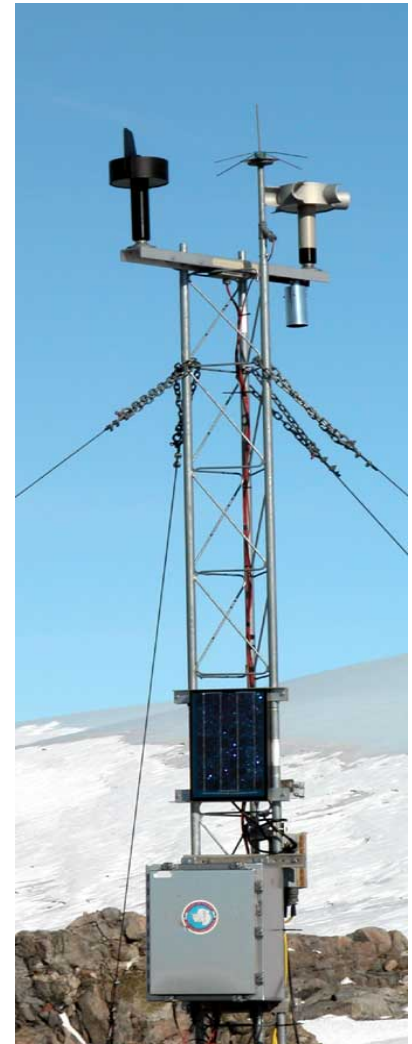
Automatic Weather Station Program now in its 26th Year!



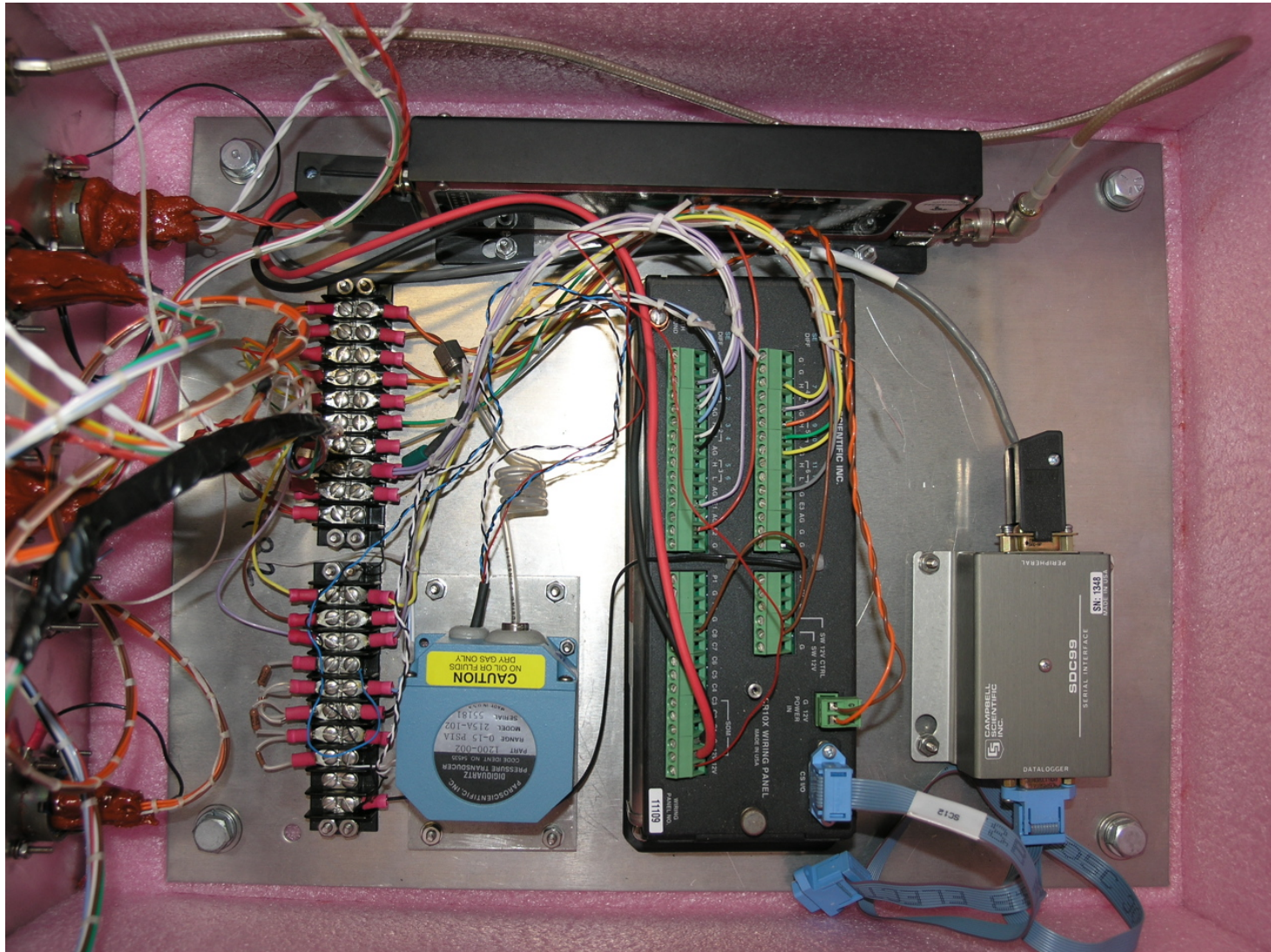
Automatic Weather Stations – Snow profile version



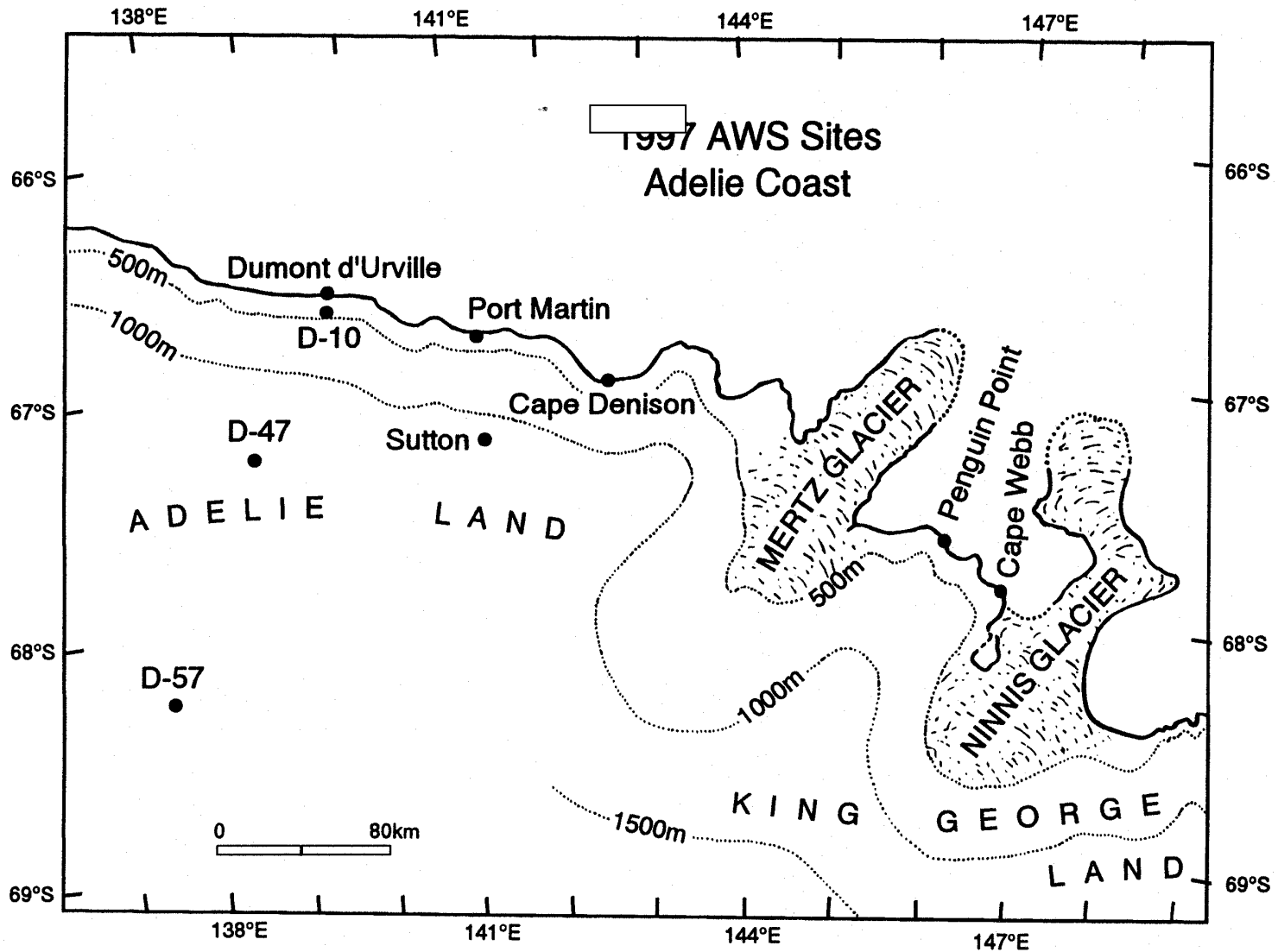
Standard version of AWS and High Wind Speed version of AWS



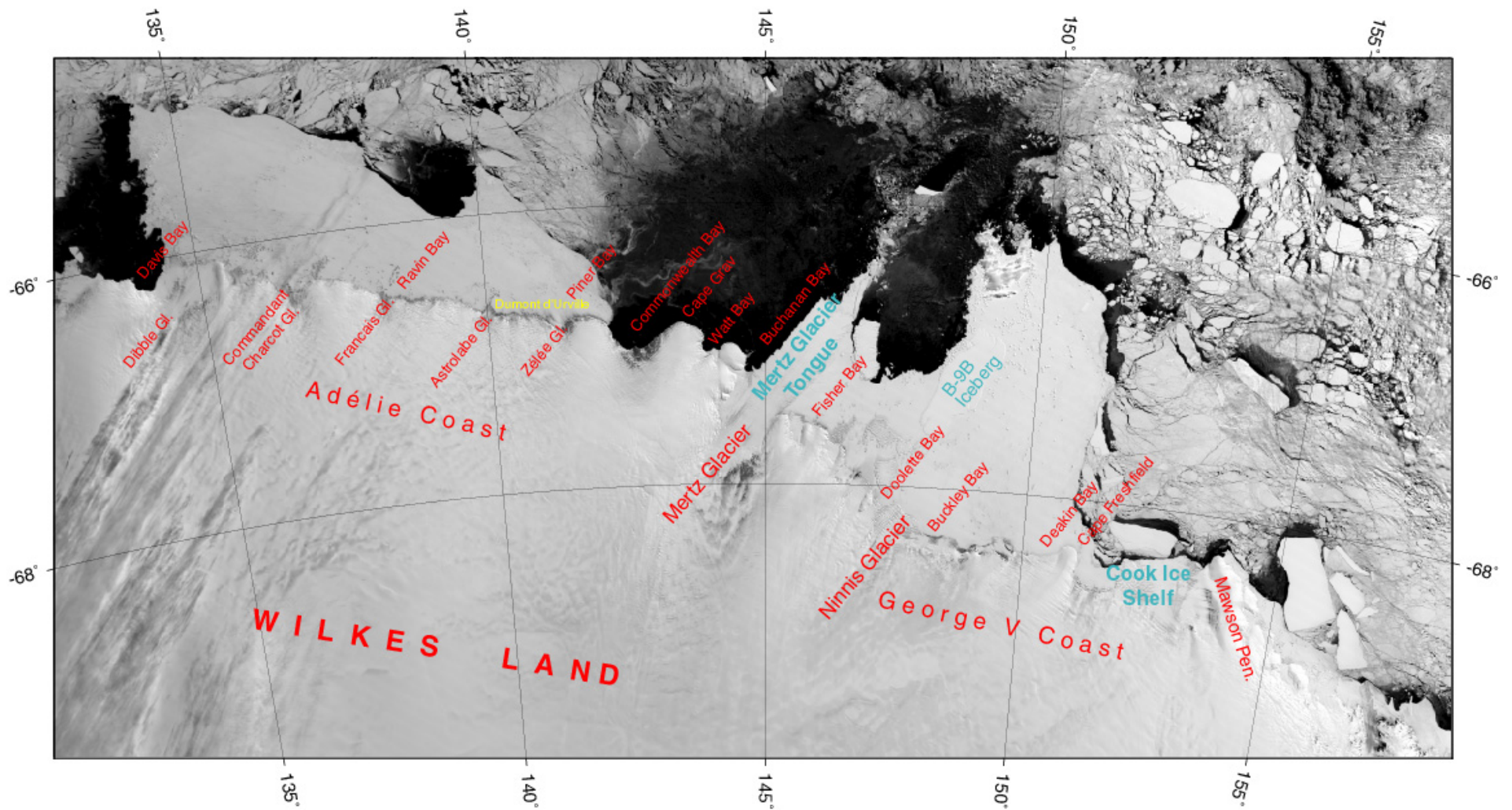
AWS based on CSI CR10X data logger



IPEV AWS (French)



Adelie Coast



AWS for IPEV

- New AWS for D10
- New AWS for D57 and D80
- Spare parts as necessary
- Tentative Argos ID's

8912

8914

8916

Ross Ice Shelf

• Marilyn	8934	79.954°S	165.130°E	75	Jan 84	89869
• Schwerdtfeger	8913	79.875°S	170.105°E	@54	Jan 85	89868
• Gill	8911	79.985°S	178.611°W	55	Jan 85	89376
• Elaine#	8989	83.134°S	174.169°E	60	Jan 86	89873
• Lettau	8908	82.518°S	174.452°W	55	Jan 86	89377
• Vito#	8695	78.509°S	177.746°E	@+50	Feb 04	
• Emilia#	8919	78.509°S	173.114°E	@+52	Feb 04	
• Caroline#	8722	79.964°S	175.842°E	@+52	Feb 05	
• Nascent#	28336	78.143°S	178.491°E	TBD	Nov 04	
• Mary#	8983	79.303°S	162.968°E	@+58	Jan 05	
• Eric#	8697	81.502°S	163.940°E	@+45	Jan 05	

New AWS ID for 2005

Antarctic Peninsula

- Larsen Ice 8926 66.949°S 60.897°W 17 Oct 85 89262
 - Butler Island 8902 72.207°S 60.160°W 91 Mar 86 89266
 - Uranus 8920 71.43°S 68.93°W 780 Mar 86 89264
 - Limbert 8925 75.422°S 59.851°W 40 Dec 95 89257
 - [Racer Rock*](#) 64.067°S 61.613°W 17 Nov 89 89261
 - Bonaparte Point 8923 64.778°S 64.067°W 8 Jan 92 89269
 - Ski-Hi 8917 74.792°S 70.488°W 1395 Feb 94 89272
 - [Santa Claus I*](#) 64.964°S 65.670°W 25 Dec 94
 - Kirkwood Island 8930 68.340°S 69.007°W 30 May 01
 - Dismal Island 8932 68.087°S 68.825°W 10 May 01
-
- Not Active for 2005, proposed replacements for 2005/2006

High Polar Plateau

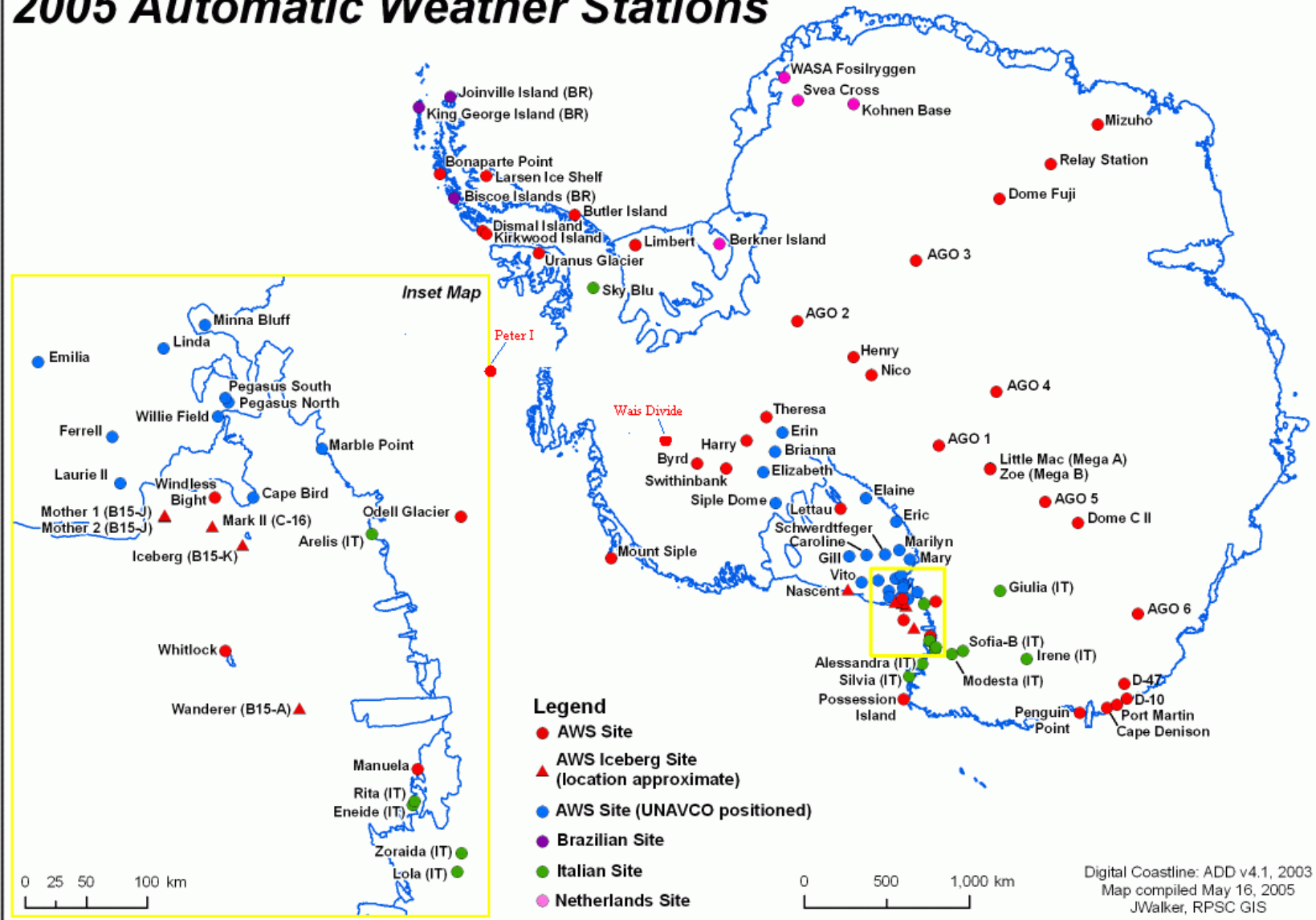
- Clean Air* 90.00°S 2835 Jan 86 89208
- Henry 8985 89.011°S 1.025°W 2755 Jan 93 89108
- Nico 8924 89.000°S 89.669°E 2935 Jan 93 89799
- Relay Station 8918 74.017°S 43.062°E 3353 Feb 95 89744
- Dome Fuji 8904 77.31°S 39.70°E 3810 Feb 95 89734
- Mizuho 21359 70.70°S 44.29°E 2260 Oct 00

* AWS removed in January of 2005.

China's traverse team at Dome A
Bian Lingen



University of Wisconsin - Madison 2005 Automatic Weather Stations



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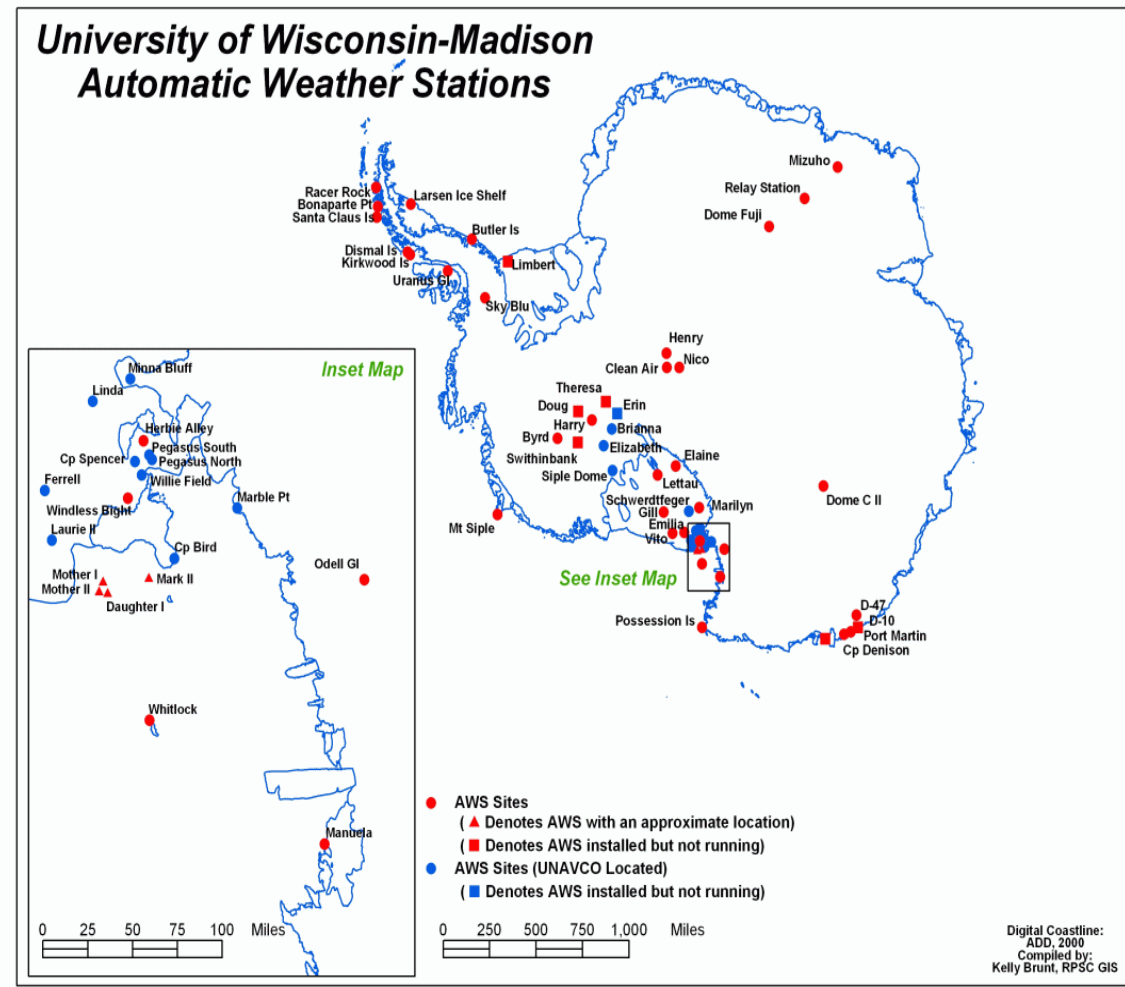
AWS Project O-283

Iceberg Project I-190

Parish/Cassano

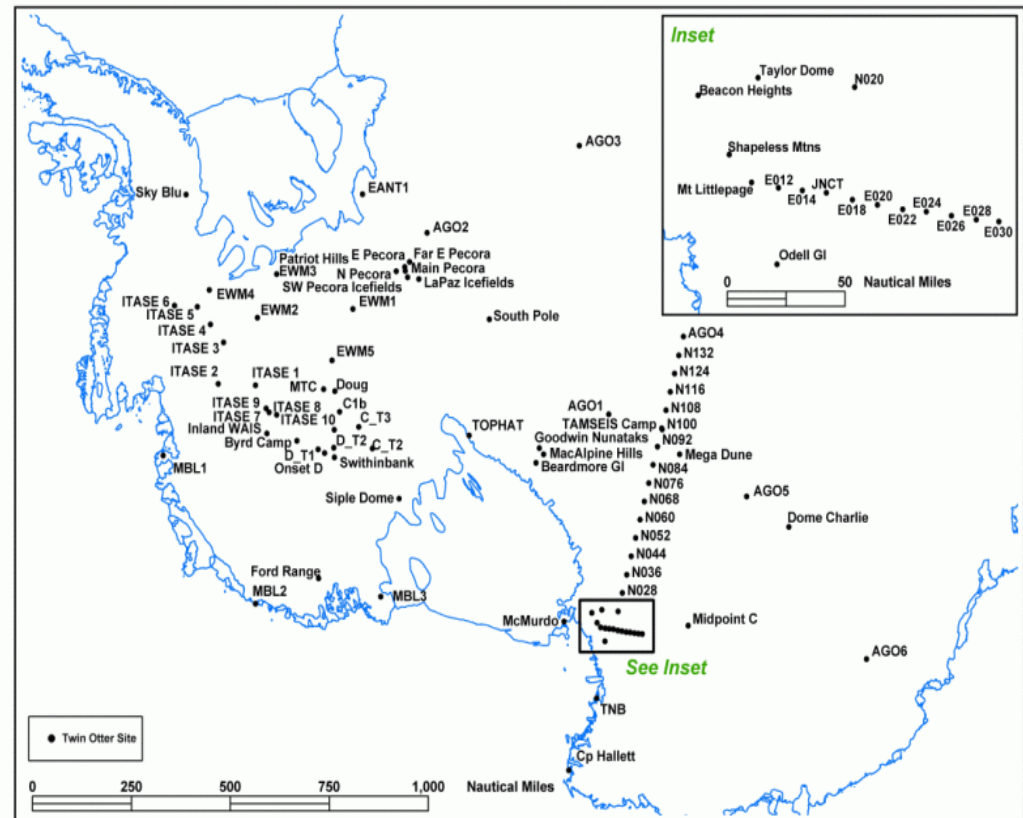
AWS servicing via Twin Otter from McMurdo

- Lettau



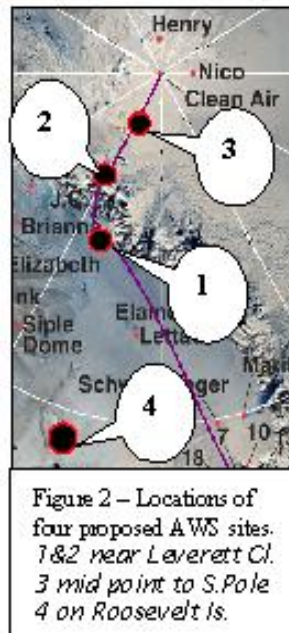
AWS servicing in West Antarctica via Twin Otter

- Siple Dome
- Noel (Install)
- Byrd
- As many other sites time permits

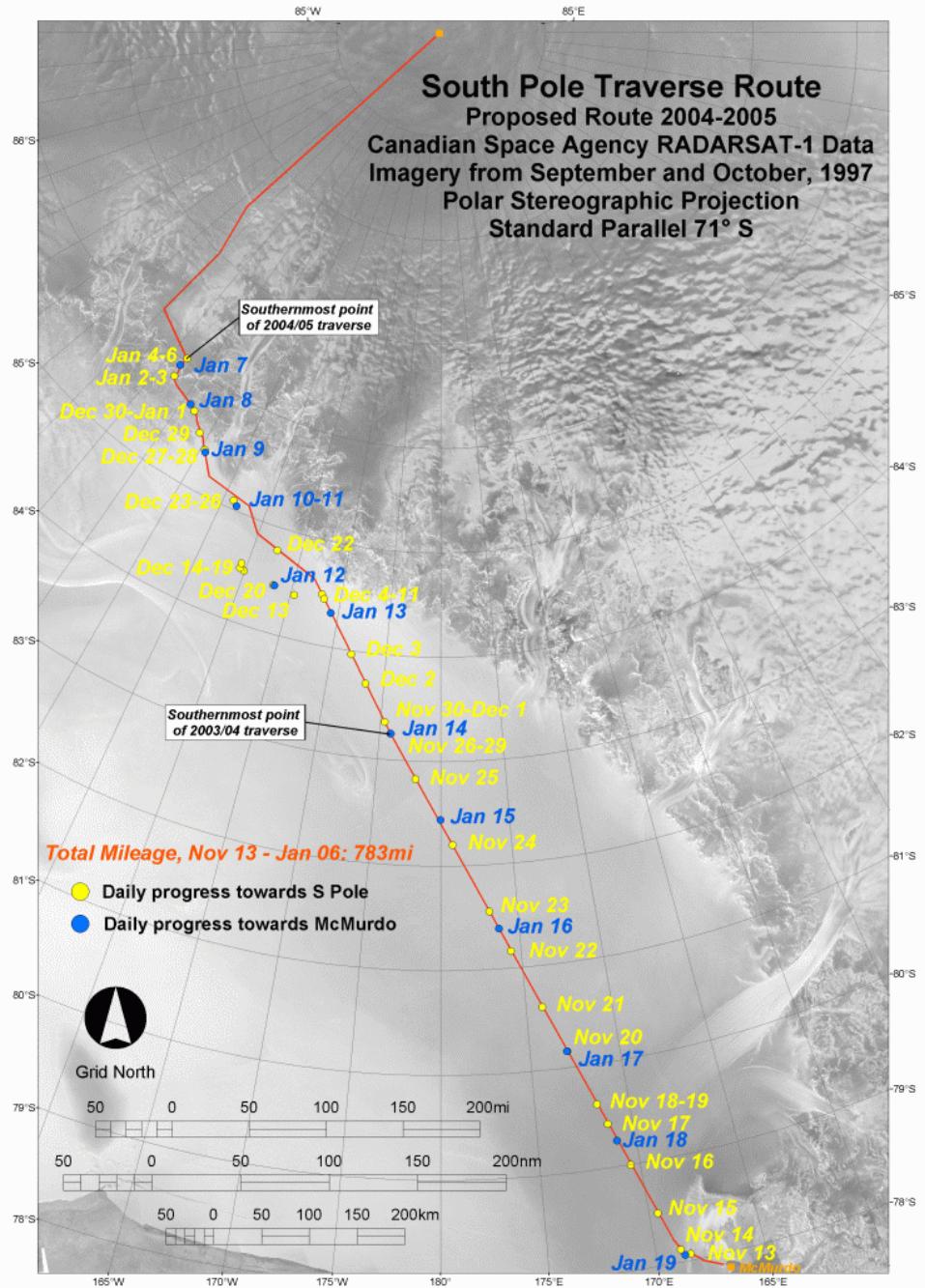


AWS in support of South Pole traverse

- Four proposed locations

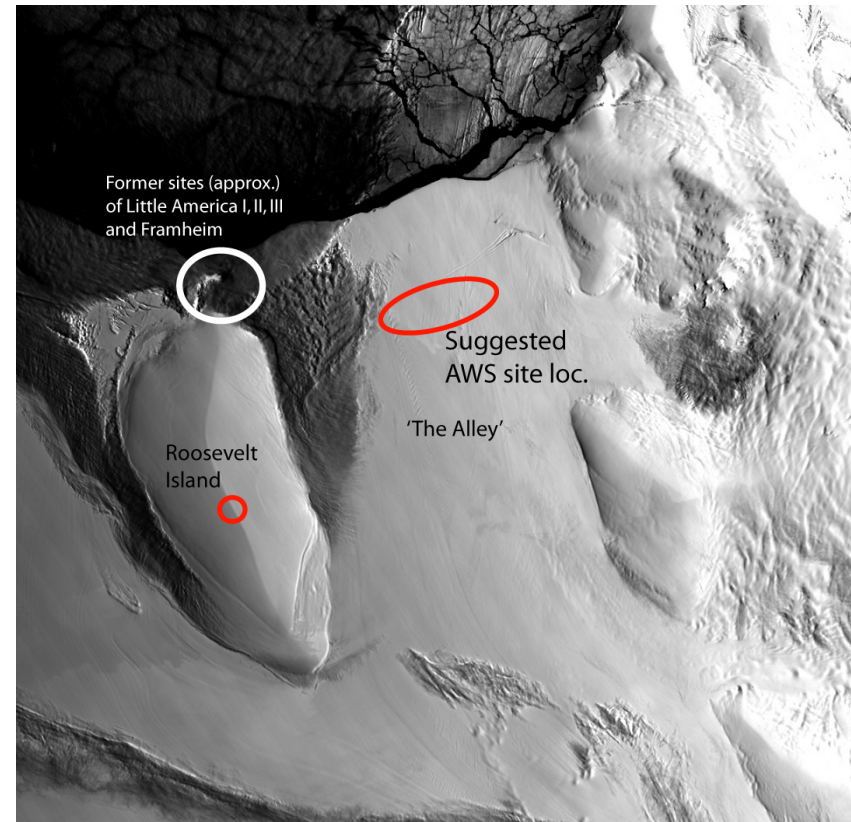


Last route



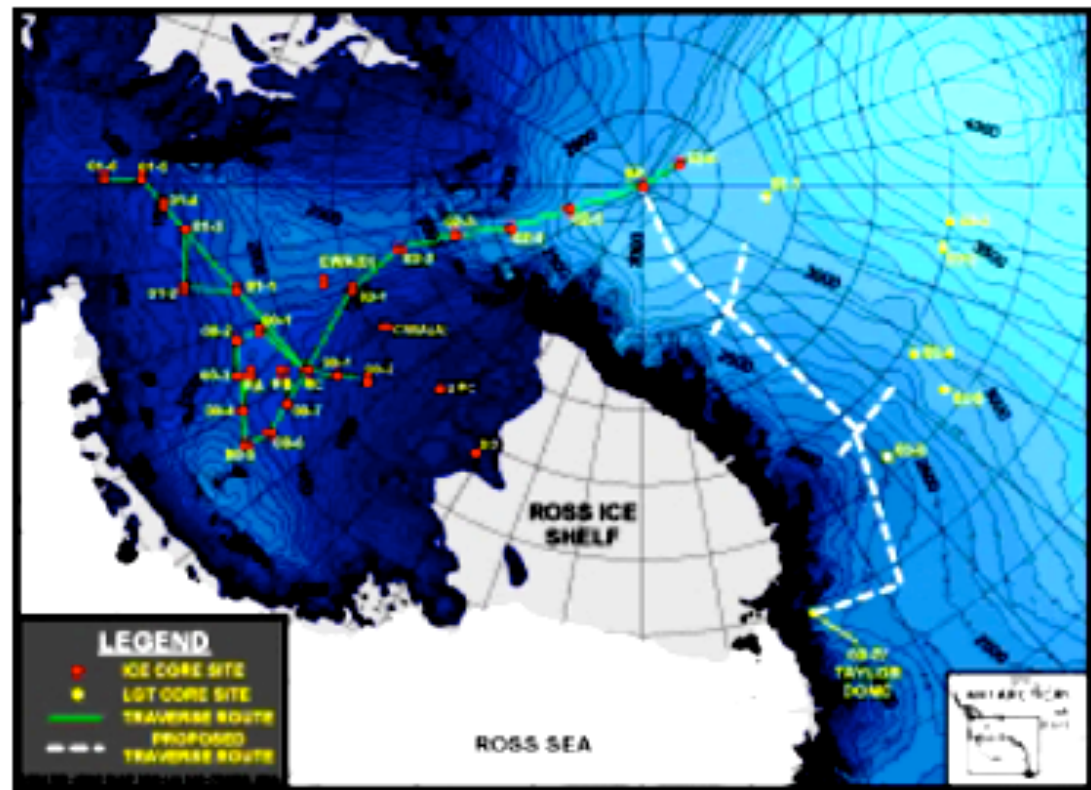
Proposed AWS near Roosevelt Island

- An AWS has been proposed to be placed between Roosevelt Island and Siple Coast



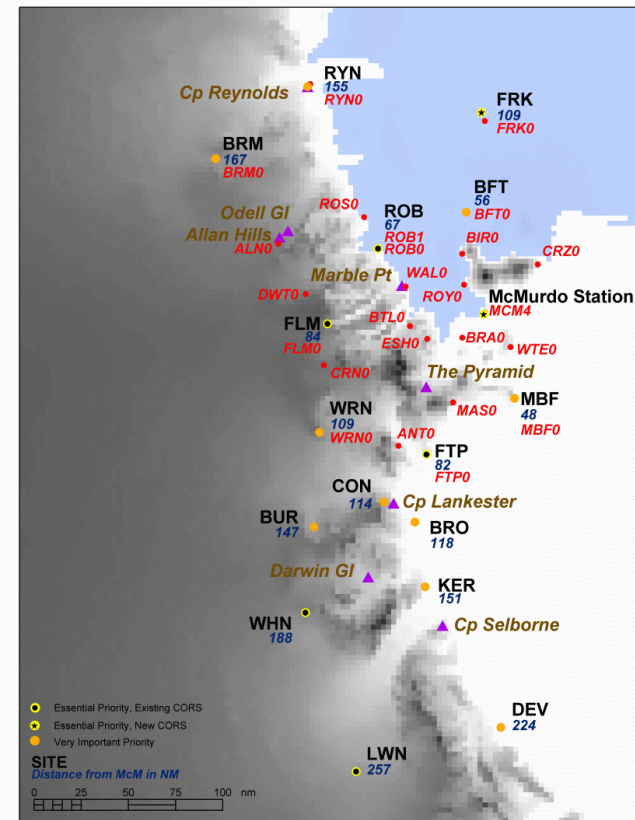
AWS sites related to Ice cores

- West Divide
- Other possible sites?

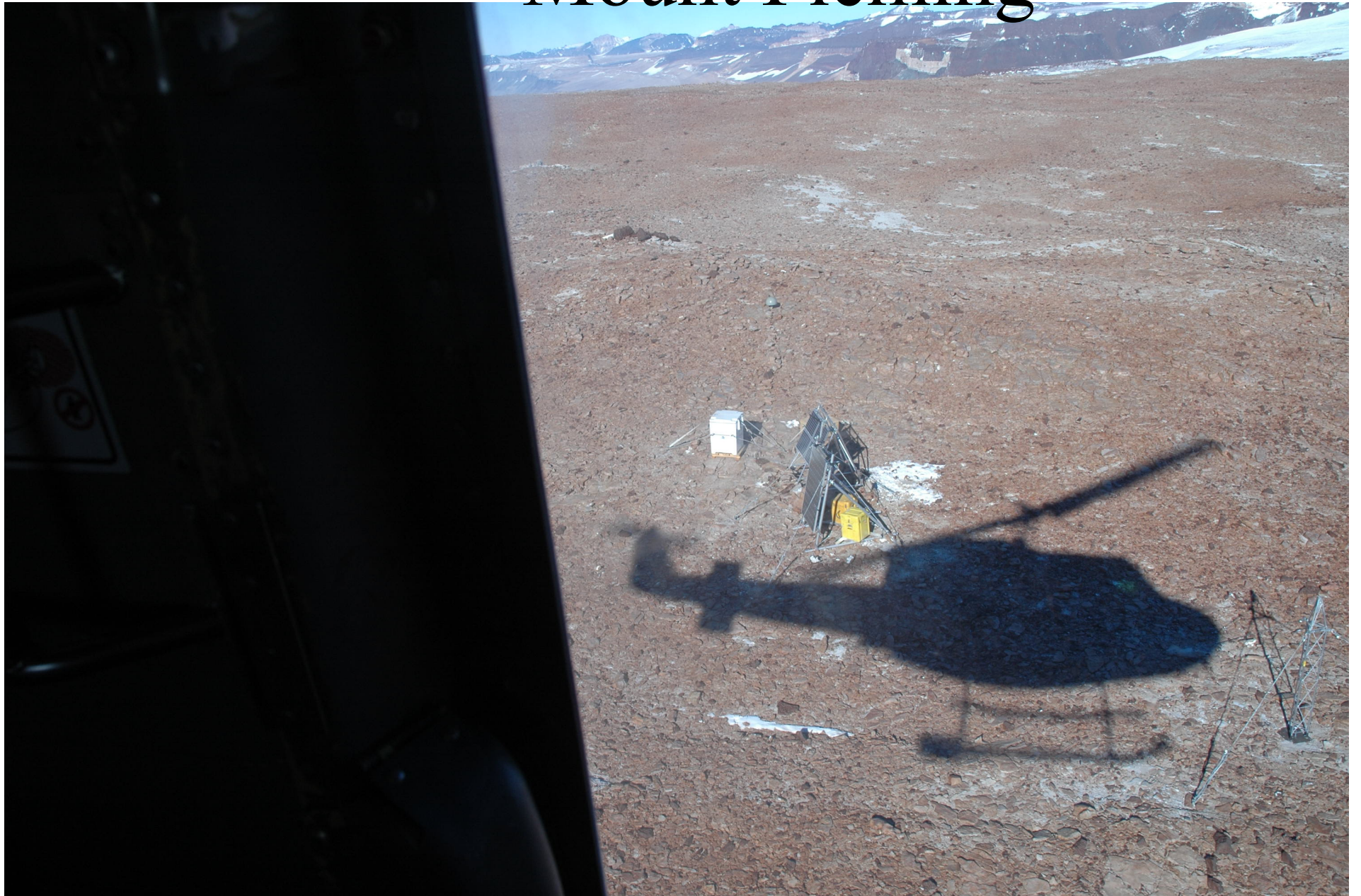


AWS and TAMDEF

- Lone Wolf Nunatak
- Mount Fleming

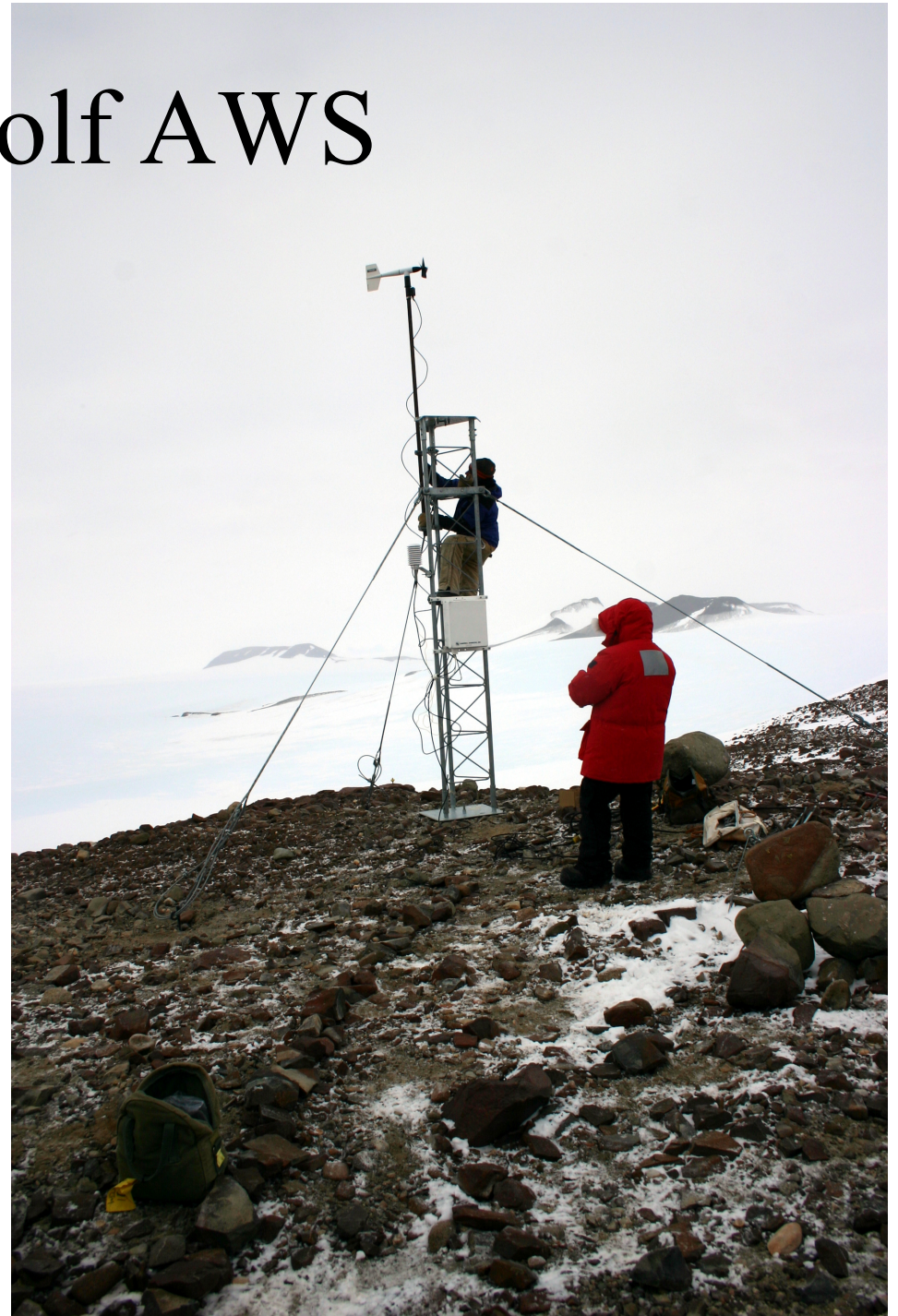


Mount Fleming



Lone Wolf AWS

Lone Wolf Nunatak
Install new electronics
With Argos



Megadune's AWS

As requested PTTs 2516 and 2769 have been returned to Service Argos. These IDs have been transferred from Pgm 2612 and you are no longer authorized to utilize these ID numbers.

Per our telephone conversation this morning your program will remain open. The System Use Agreement (SUA) for this program will expire on 31-Oct-2005.

- would require two to three AWS ID's that we currently have
- **Delayed until 2007/2008**

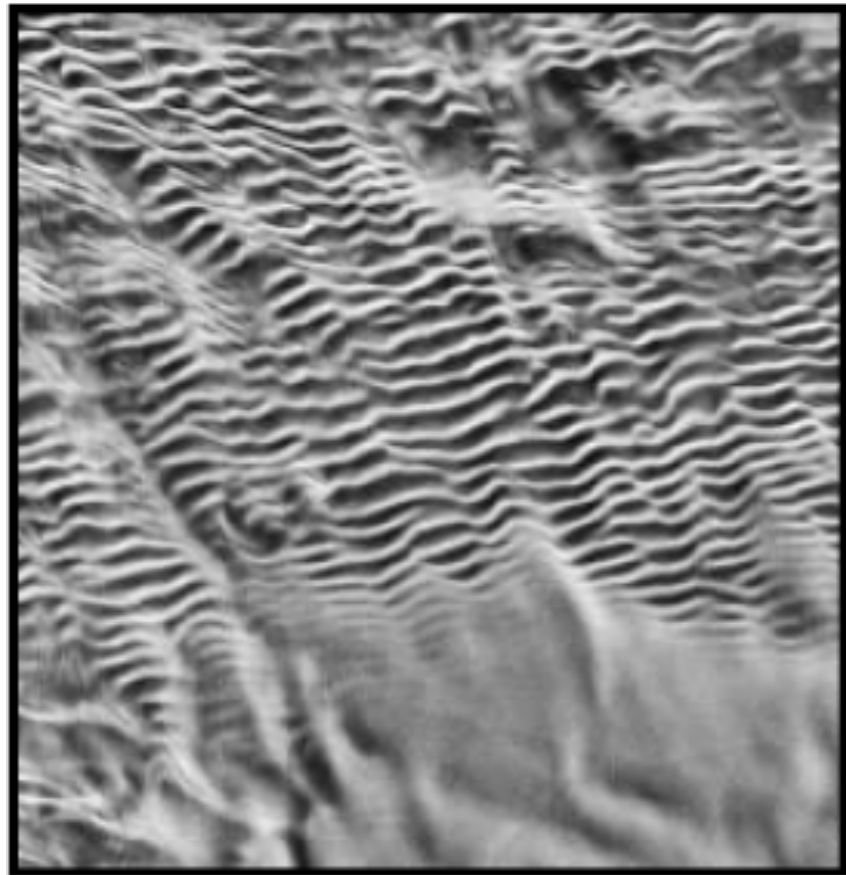


Image provided by Ted Scambos

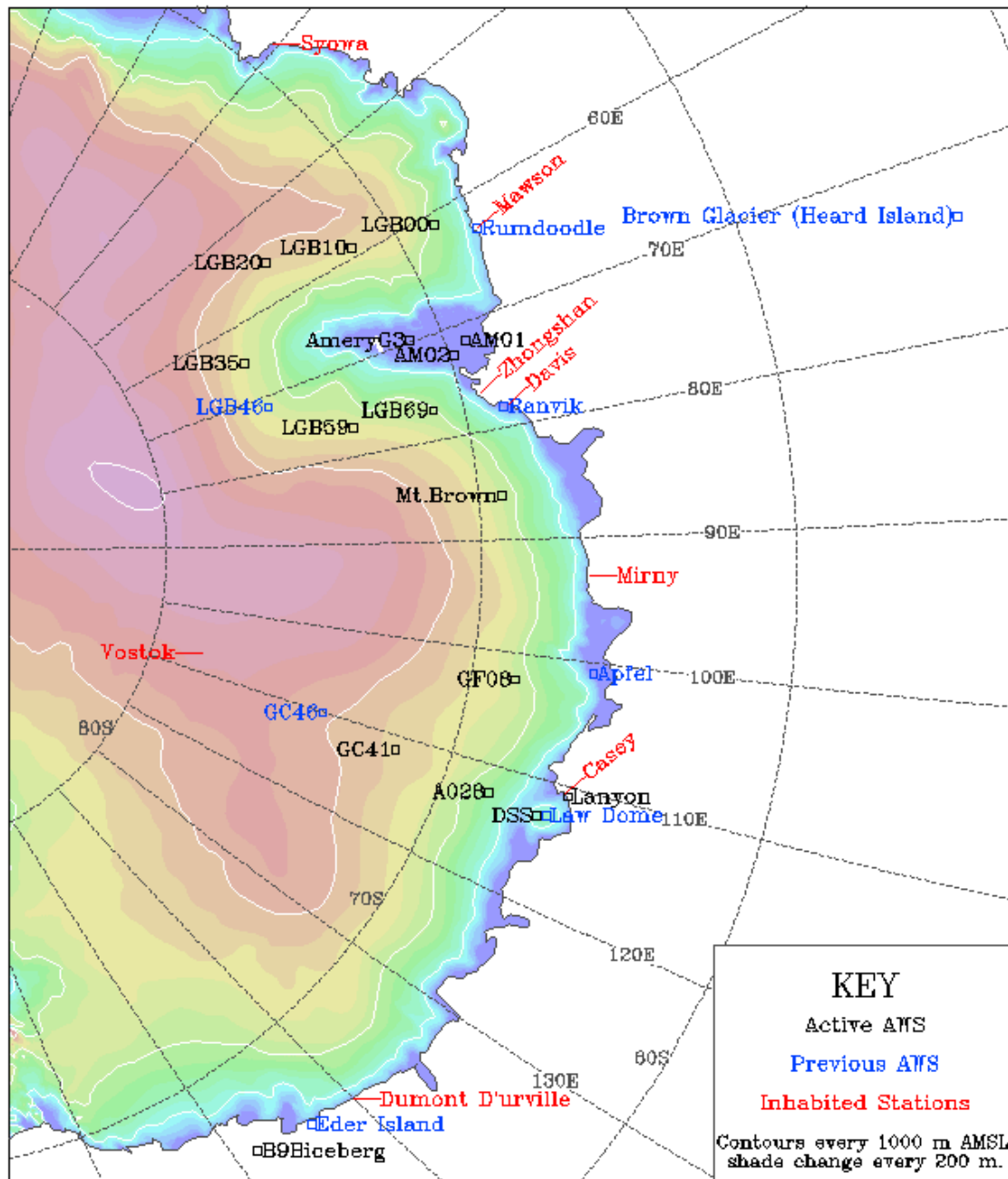
Katabatic fingerprint: satellite image of the megadunes near Vostok (160 by 160 km).

Other AWS arrays

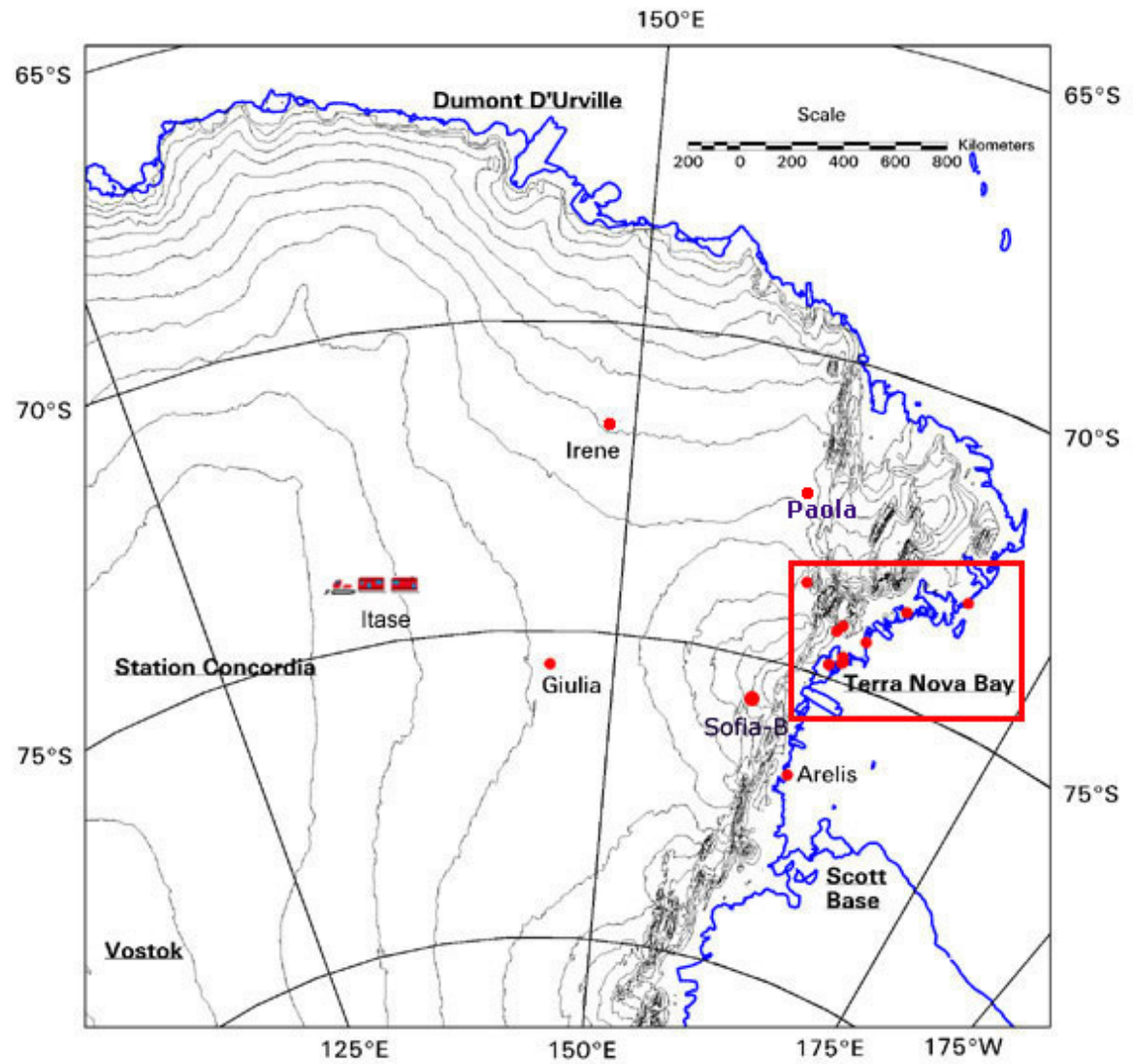
- Australian
- Italian
- EPICA
- German

Australian Antarctic Automatic Weather Stations

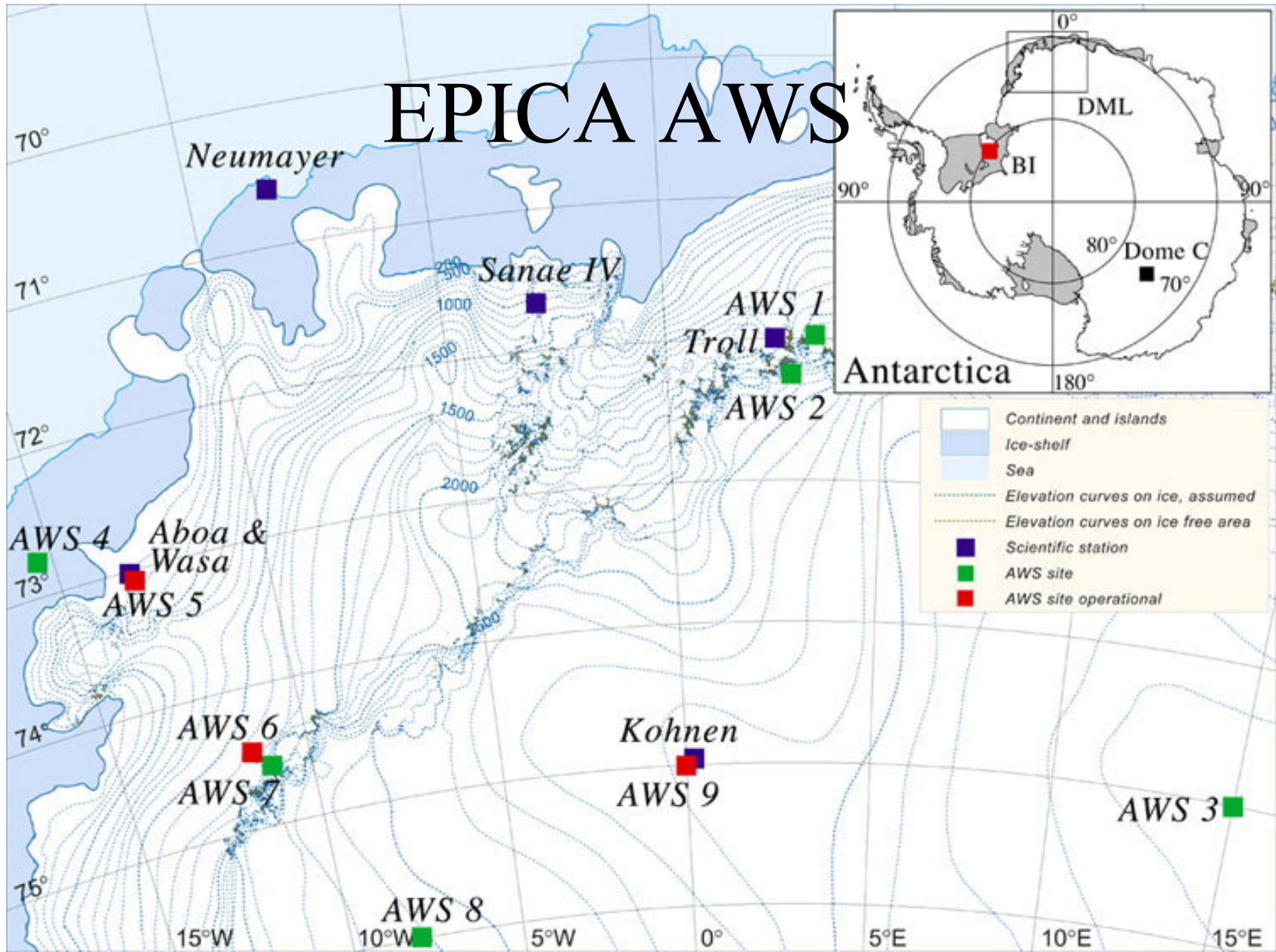
Australian



Italian



EPICA AWS

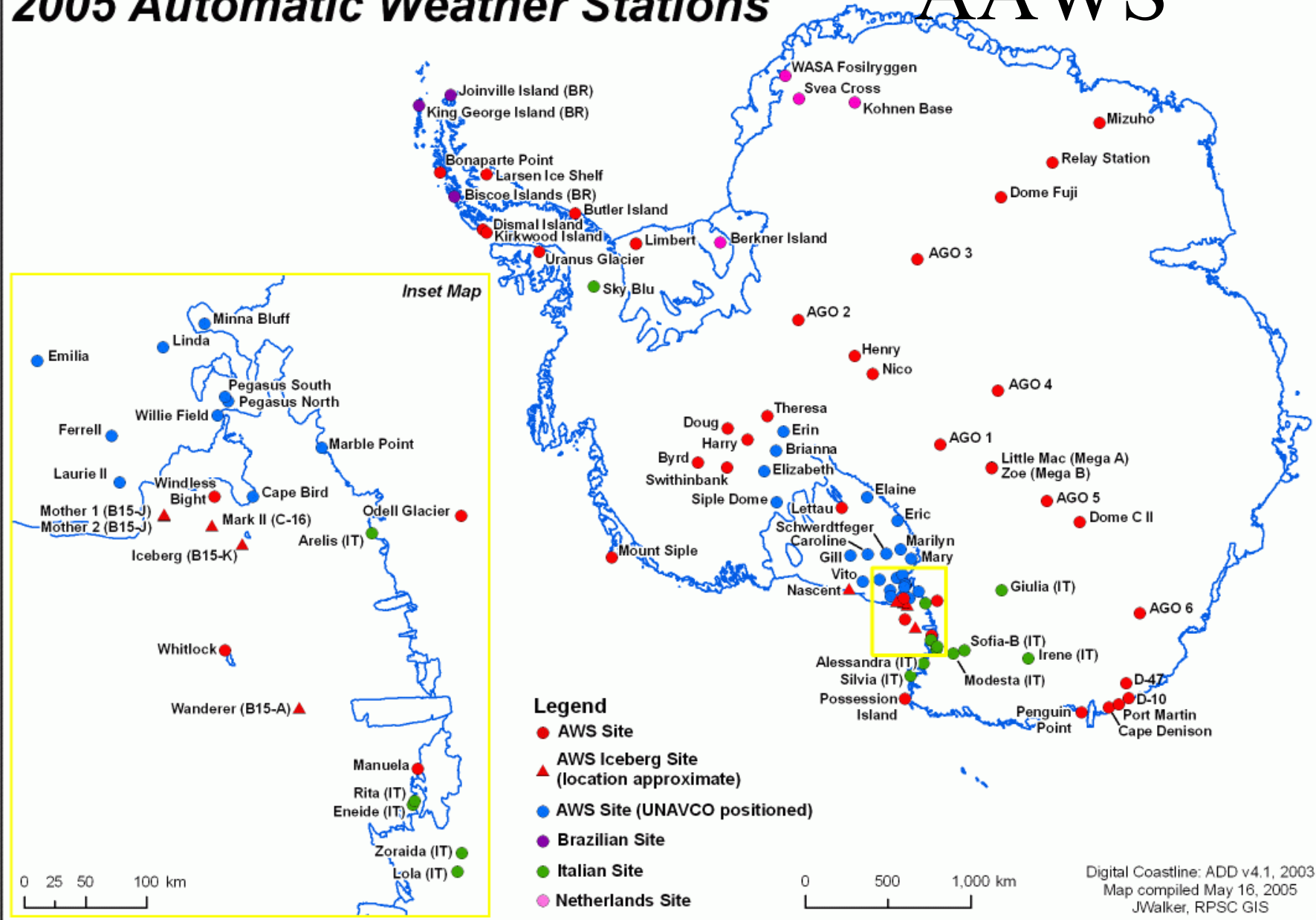


BAS

- AWS field work to be done by the British Antarctic Survey at Rothera.
- Items provided via BAS Antarctic supply ship. Items to be shipped directly to BAS.
- Service AWS as necessary

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AAWS



Parish and Bromwich (1987)

