

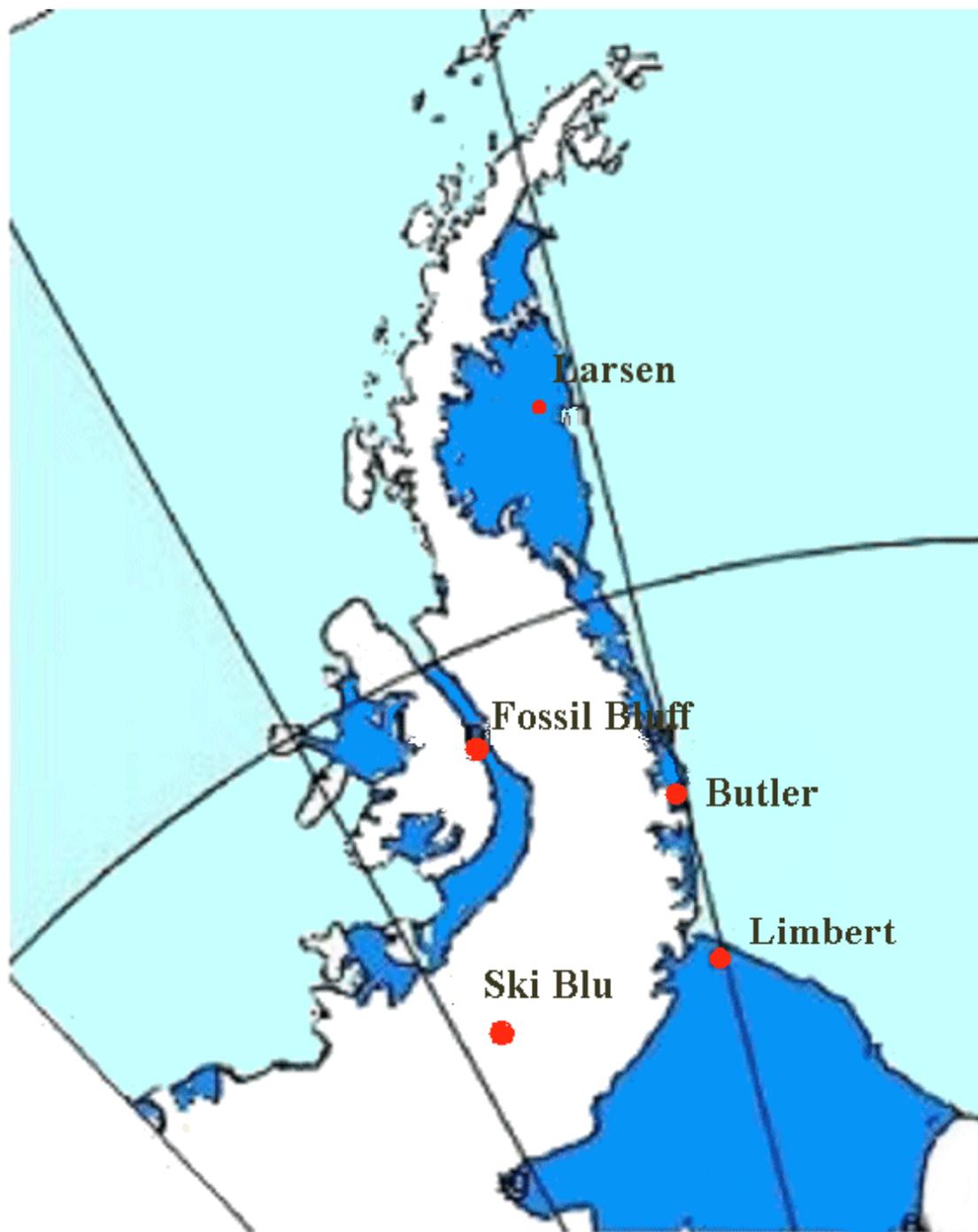
Antarctic Peninsula Automatic Weather  
Station Servicing by BAS for Summer  
2005/2006 and an update on the READER  
project

Steve Colwell

# Overview

- The AWS network.
- Work done this season
- Future plans
- READER

Click on an area to enlarge



# Current Status

<b>Name</b>	<b>Temperature</b>	<b>Pressure</b>	<b>Wind speed</b>	<b>Wind direction</b>
<b>Larsen</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>
<b>Butler</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>
<b>Ski Blu</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>
<b>Limbert</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>FROZEN</b>
<b>Fossil Bluff</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>

# Servicing done this last season

- To assist with the servicing a Telonics TSUR-400 receiver was purchased and sent to Rothera this season. This proved to be very useful in the field.
- Limbert
  - The whole system was dug up and re-erected on the same site and the boom aligned with magnetic North.
- Ski Blu
  - The AWS looked to be in good condition and did not need to be raised.
  - The power cable to the battery box was replaced due to incorrect wiring from the previous year

- Uranus Glacier
  - The AWS was dug up and all equipment was removed.
  - A new AWS was put in place at Fossil Bluff.
- Larsen
  - This site was initially visited on the 14/12/05 and the battery box was found to be full of corrosion and hence testing of the AWS was not possible.
  - A second visit was made to install a new battery box and test that the AWS was transmitting.
- Butler Island
  - The mast was raised and the box repositioned up the mast.

# New Fossil Bluff AWS

- A Campbell CR10X AWS was installed at Fossil Bluff and has the same ARGOS ID as the AWS that was at Uranus Glacier.
- Data are sampled every 10 seconds then averaged every 10 minutes and transmitted.
- The data are downloaded from the ARGOS website every hour then decoded and error checked.

- The data is then formatted into a synoptic message that includes the wind speed, wind direction, temperature and station level pressure which are the measured parameters.
- Dewpoint, sea level pressure and pressure trend are calculated and also added to the synoptic message.
- The synoptic message is then sent to the Met Office via E-mail for insertion onto the GTS.

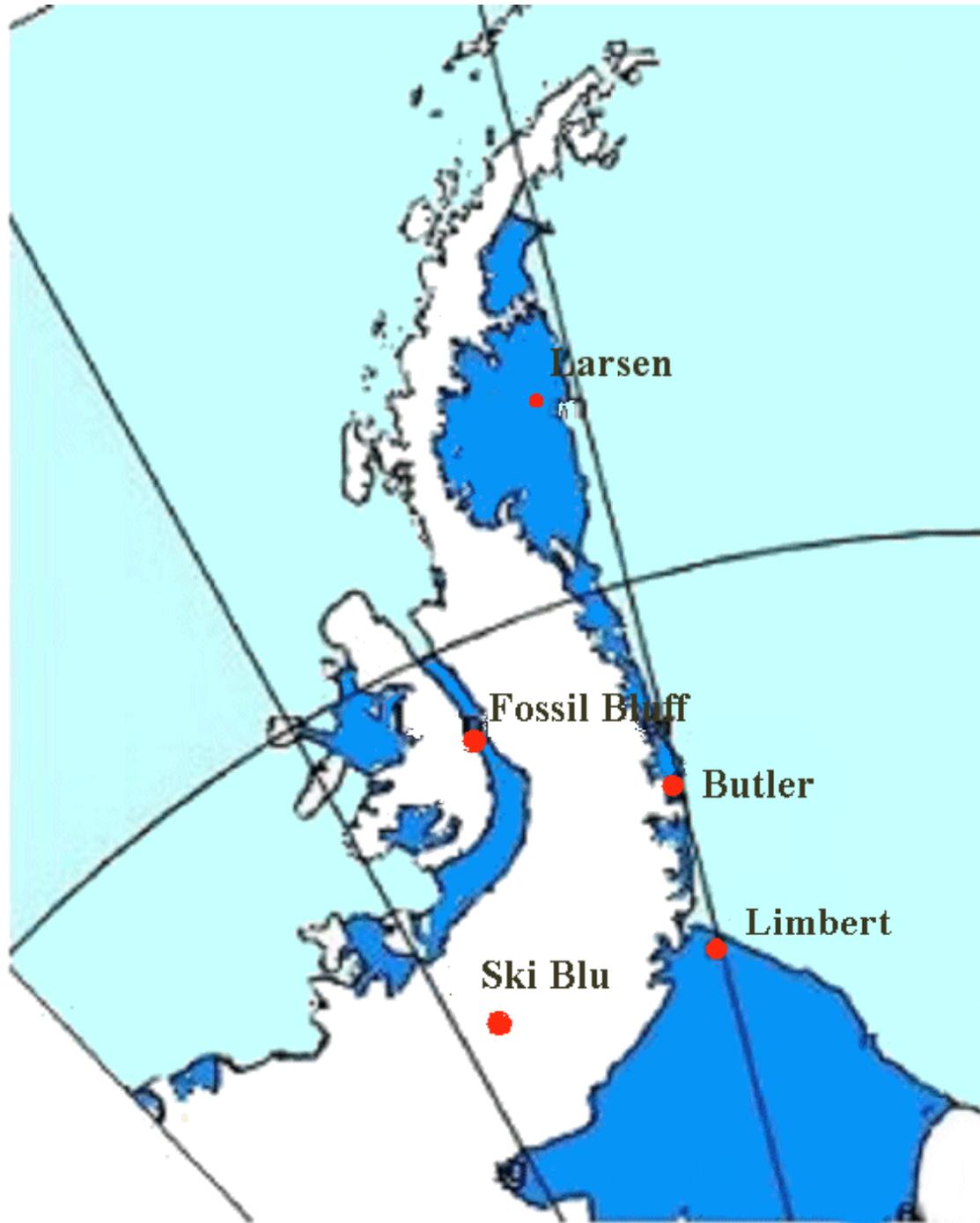
- Only the synoptic data from Butler Island is being inserted onto the GTS by ARGOS.
- Data for Larsen, Limbert and Ski Blu are being downloaded from the SSEC website every hour by a script that runs at BAS.
- A synoptic message is being constructed from the data and E-mailed to the Met Office for insertion onto the GTS.
- This route can be stopped if ARGOS begin to insert the data for Larsen, Limbert and Ski Blu.

# GCOS monitoring

- BAS has agreed to carry out the GCOS monitoring for Antarctica.
- This will include the monitoring of the SYNOP and TEMP messages that go out on the GTS and also the CLIMAT and CLIMAT TEMP messages.
- Internal consistency checks SYNOPS and CLIMAT messages and TEMP and CLIMAT TEMP messages.

89269	Bonaparte Point	18-JAN-2000	
89266	Butler Island	On GTS	
89324	Byrd	06-SEP-2000	
89834	D-47	19-NOV-2005	
89828	Dome C II	04-FEB-2006	
89734	Dome F (Fuji)	17-NOV-2000	
89873	Elaine	29-NOV-2001	
89332	Elizabeth	04-FEB-2006	
89872	Ferrell	20-AUG-2001	
89376	Gill	04-FEB-2006	
89108	Henry	04-FEB-2006	
89262	Larsen Ice Shelf	04-FEB-2006	ON GTS via BAS
89377	Lettau	04-FEB-2006	
89257	Limbert	04-FEB-2006	ON GTS via BAS
89769	Linda	On GTS	
89864	Manuela (Inex. Is.)	26-APR-2006	
89866	Marble Point	04-FEB-2006	
89869	Marilyn (Byrd Gl.)	06-AUG-2000	
89768	Minna Bluff	08-OCT-2004	
89327	Mount Siple	04-FEB-2006	
89799	Nico	26-APR-2006	
89667	Pegasus North	26-JAN-2001	
89879	Possession Island	26-APR-2006	
89868	Schwerdtfeger	04-FEB-2006	
89345	Siple Dome	On GTS	
89272	Ski-Blu	04-FEB-2006	On GTS via BAS
89314	Theresa	26-APR-2006	









# Future plans

- BAS has purchased 3 more Campbell AWS units.
- These are based on CR1000 loggers with ST-20 ARGOS transmitters.
- One will be installed at Limbert site.
- One will be installed at Butler Island
- One will be installed at Larsen Ice Shelf.
- The ones already at Fossil Bluff and Ski Blu will be upgraded to CR1000 logger with ST-20 ARGOS transmitters.

# READER

- The READER project is expanding so the current READER project will become Met READER and there will also be an Ice READER with information about ice cores and snow pits and an Ocean READER with information about ocean currents, salinity measurements, sea ice etc (but not biological samples).
- Ice READER and Ocean READER will initially just point to where the data are located.

- Met READER has been updated to the end of 2005 by contacting all of the national operators to get access to their more recent data. The task is still not completed but surface station data has been collected for;
- UK, all stations up to the end of 2005.
- America, all stations up to the end of 2005.
- Australia, all stations up to the end of 2005.
- Japan, Syowa station up to the end of 2004.
- Russia, data is arriving for all of the Russian stations.
- No surface data has yet been received from China, France, Argentina, Chile or Korea.

# AWS data has been collect for

- America, up to the end of July 2001.
- Italy, up to the end of October 2005.
- Australia, up to the end of 2002.

# Upper air data has been collected for

- UK, all stations up to the end of 2005.
- America, all stations up to the end of 2005.
- Australia, all stations up to the end of 2005.
- Japan, Syowa station up to the end of 2004.
- Russia, Mirny and Novolazarevskaja up to the end of June 2005
- No upper air data has yet been received from France, Argentina or Italy (but this is on its way).

- Upper air data that has been collected for READER has been offered to IGRA (Integrated Global Radiosonde Archive) which used to be CARDS (Comprehensive Aerological Reference Data Set) but they are not ready for accepting new data yet.

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- [Src@bas.ac.uk](mailto:Src@bas.ac.uk)
- <http://www.antarctica.ac.uk/>
- <http://www.antarctica.ac.uk/met/READER/>