

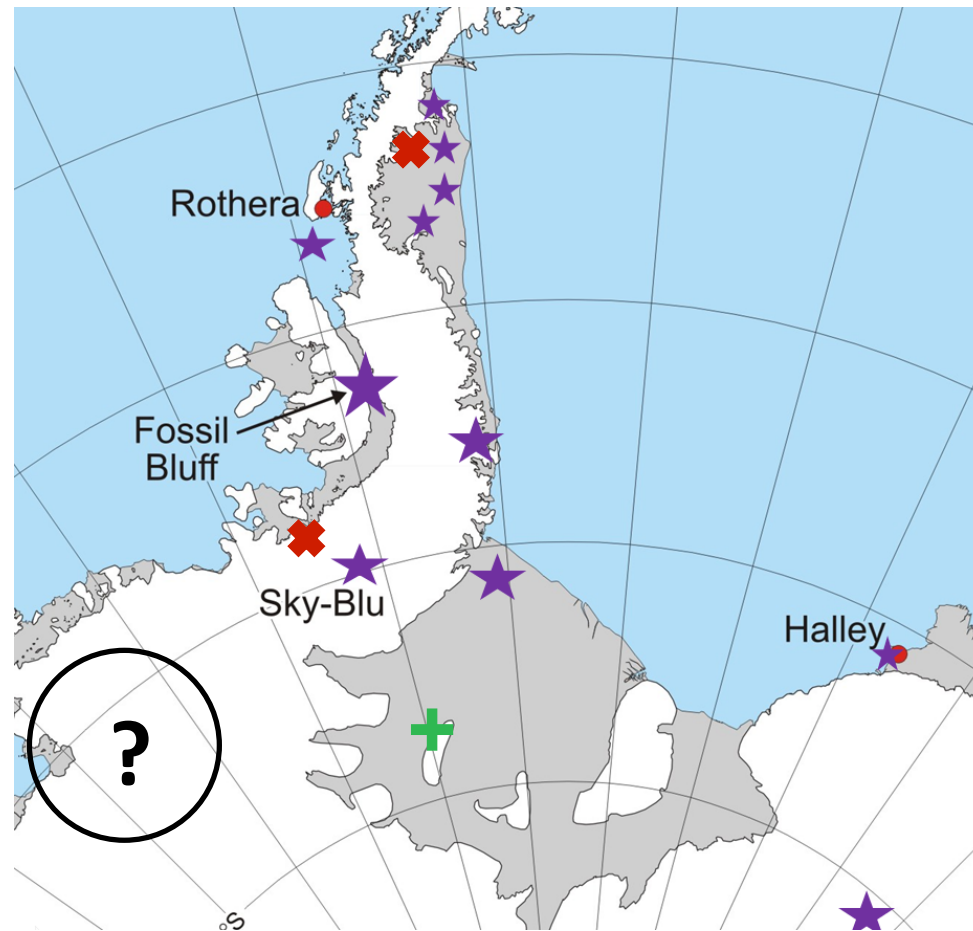
Antarctic Peninsula Automatic Weather Station Update

**Tamsin Gray, Steve Colwell, Rosey Grant, Mairi Simms (British Antarctic Survey),
Carleen Reijmer, Wim Boot (University of Utrecht)**

- Recent changes to our AWS network
- A bit about our field season – lessons learnt
- Future planned changes and the coming field season
- A little bit of data



Current AWS Network with Recent and Planned Changes



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Photo: Robert Arthern

Photo: Ailsa Benton



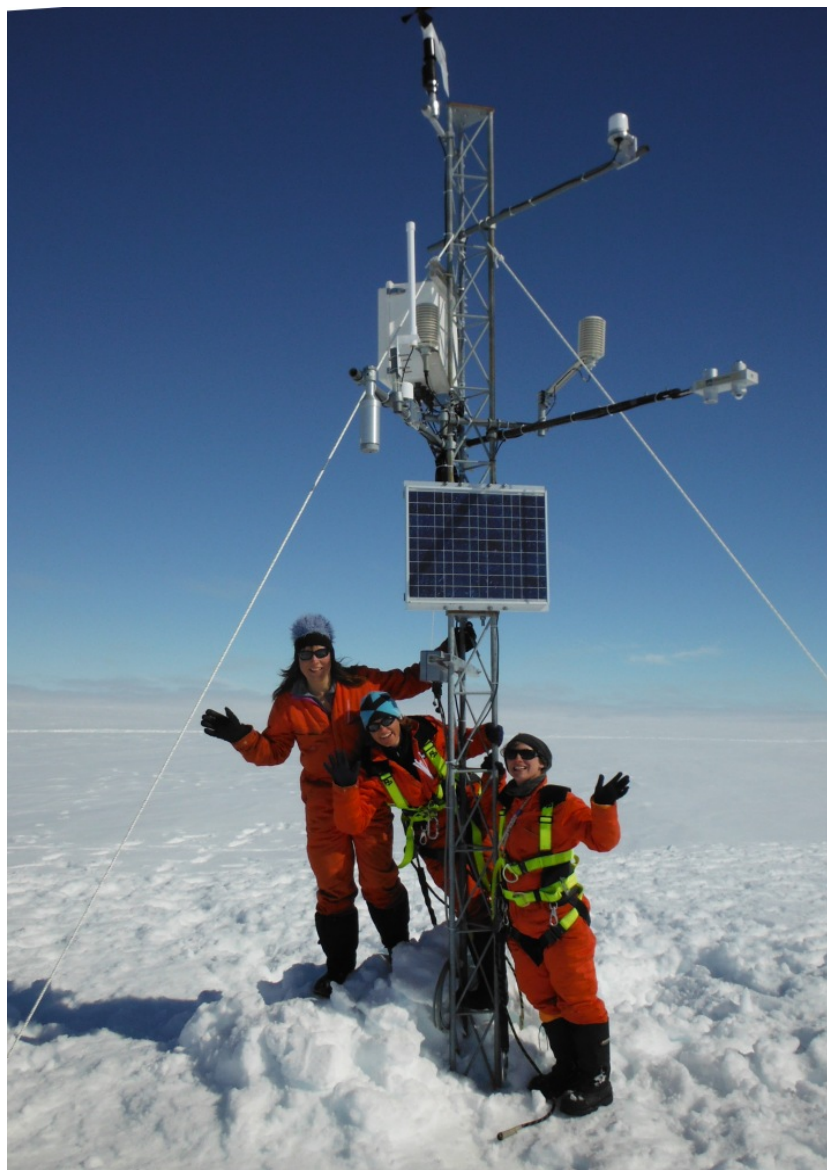
I think this is
it...No, just
another ice layer



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Argos real time data
transmission replaced
by Iridium SBD
messages

Extra batteries added at
Sky Blu and Larsen to
improve winter
reliability



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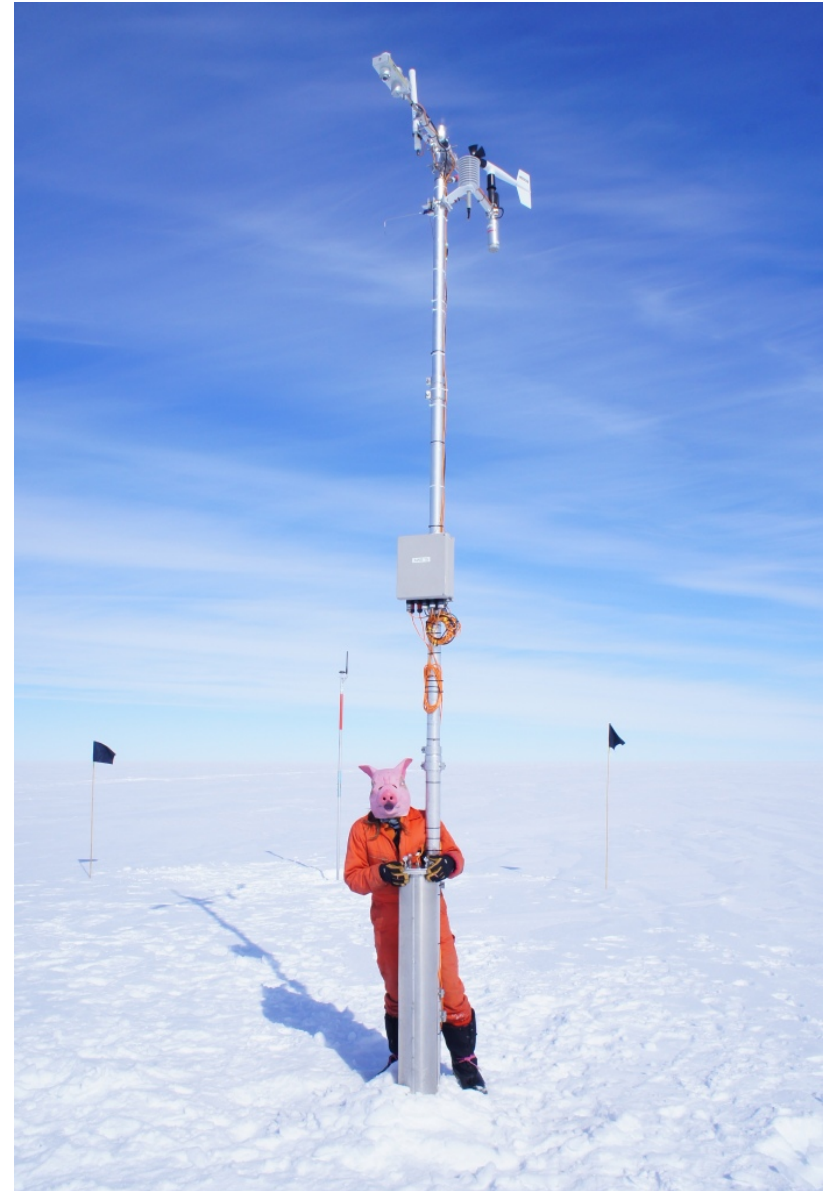
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Current Dutch AWSs to run
until end of 2014, then
replaced by new improved
versions

Old: 128 batteries for 6 years
New: batteries for 4 years

20 times less energy
consumption



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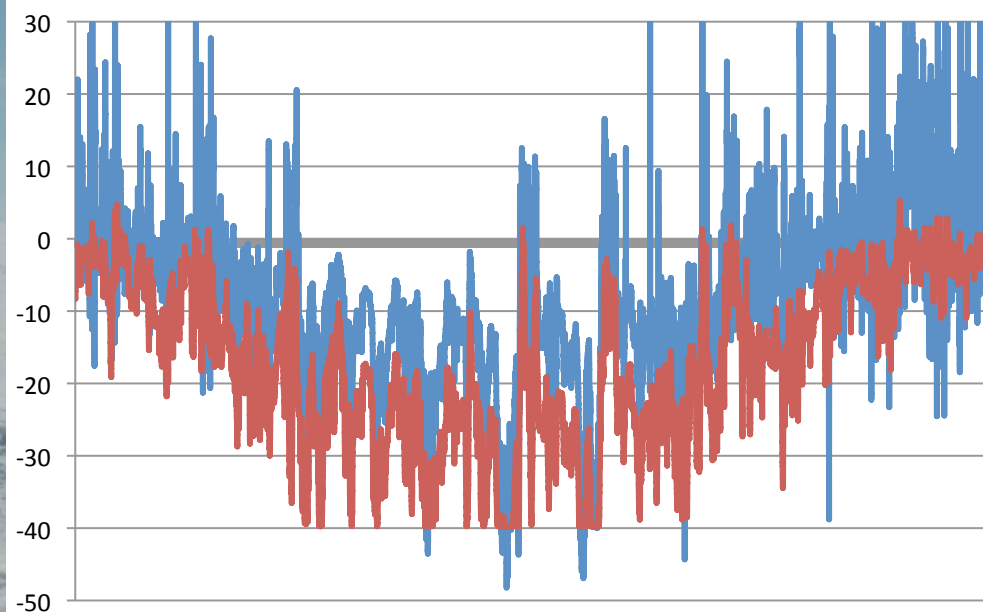
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AWS Data Comparison



Pressure:	0.2hPa
Wind Speed:	0.3 knots
Wind Direction:	2 degrees
Humidity:	7%
Temperature:	0.4°C



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Picnic on the Larsen Ice Shelf



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Cloudy on the East = Sunny on the West

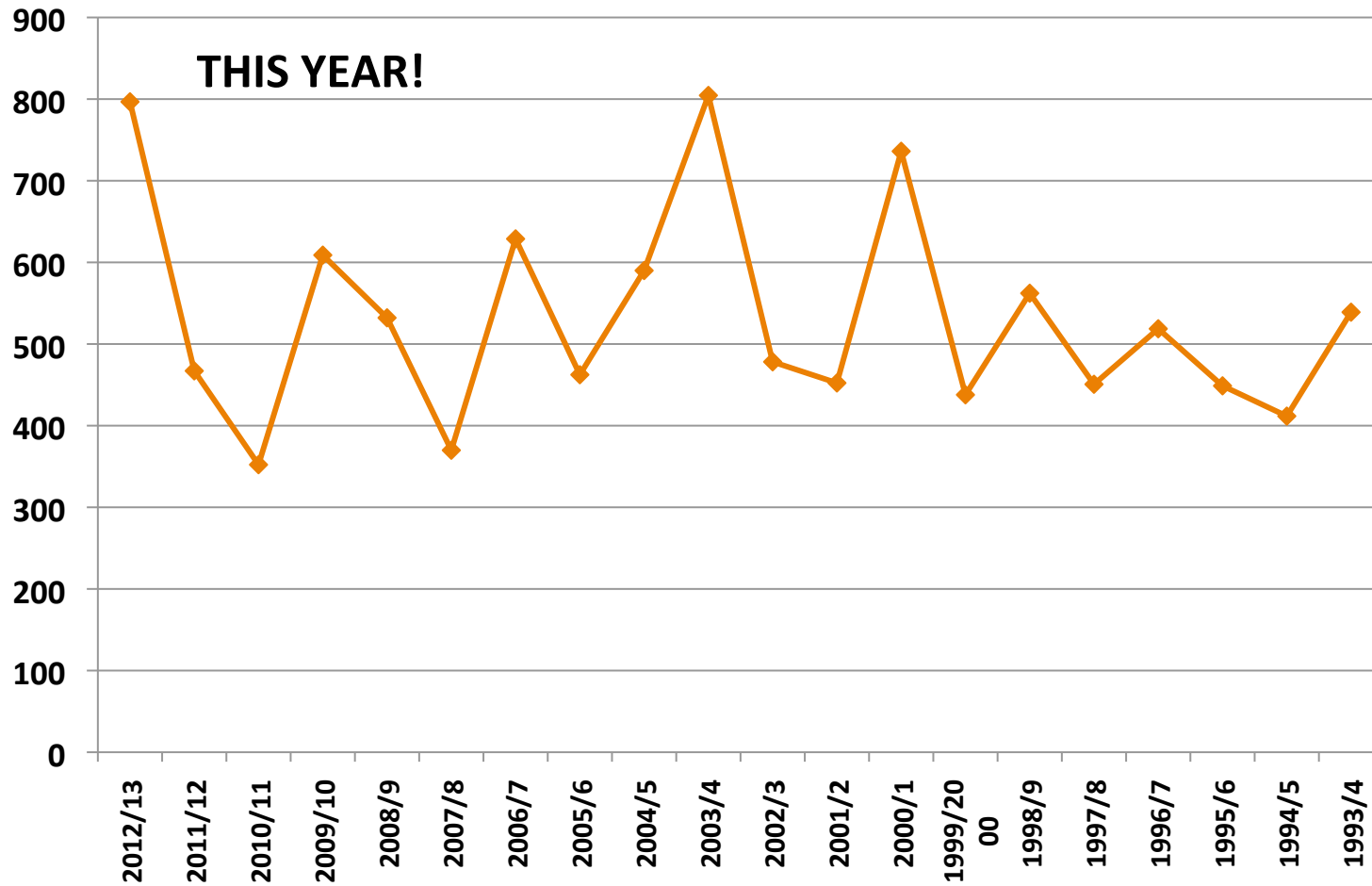


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Total Hours of Summer Sun at Rothera



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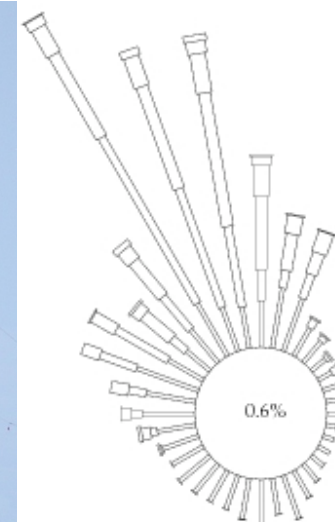
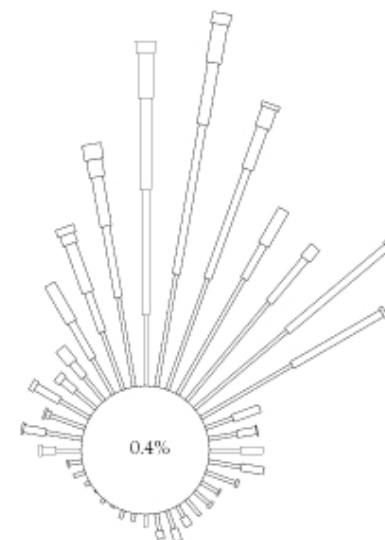
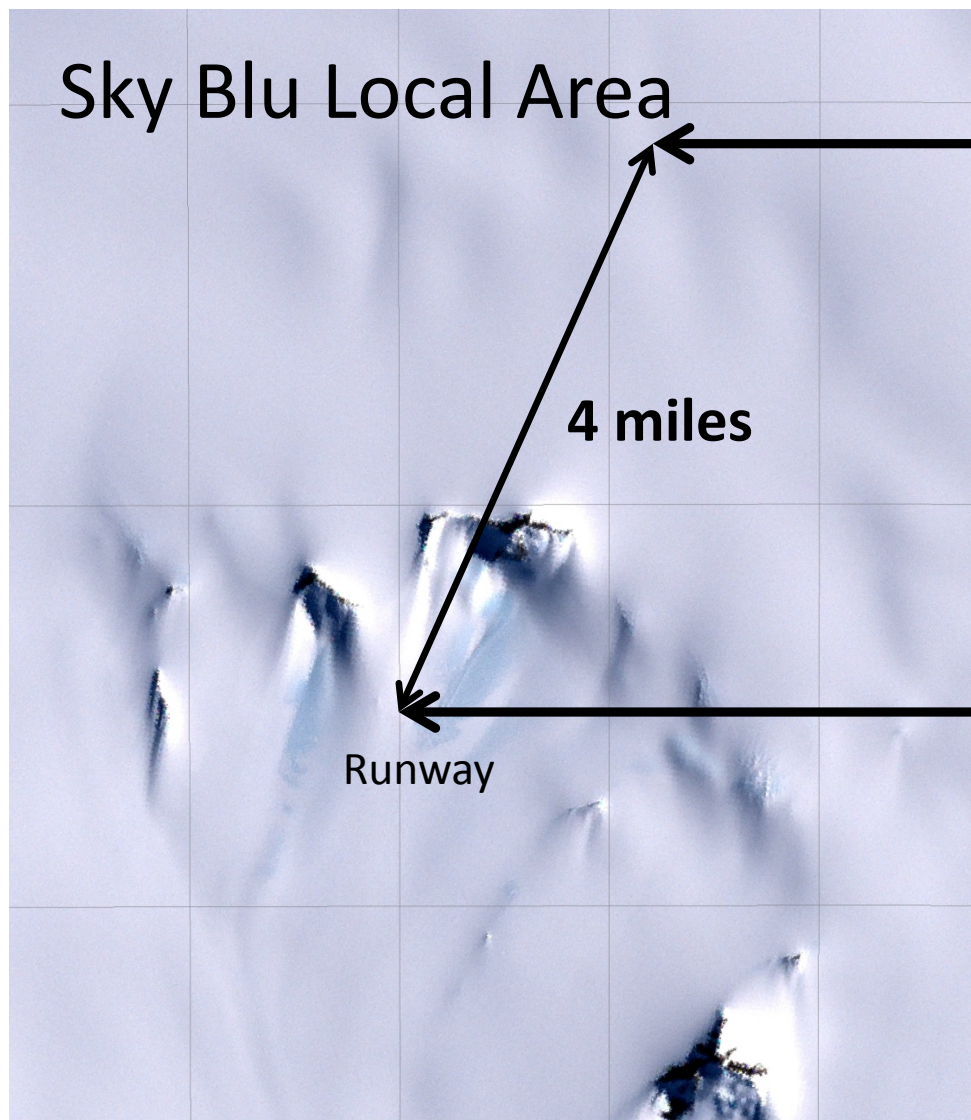




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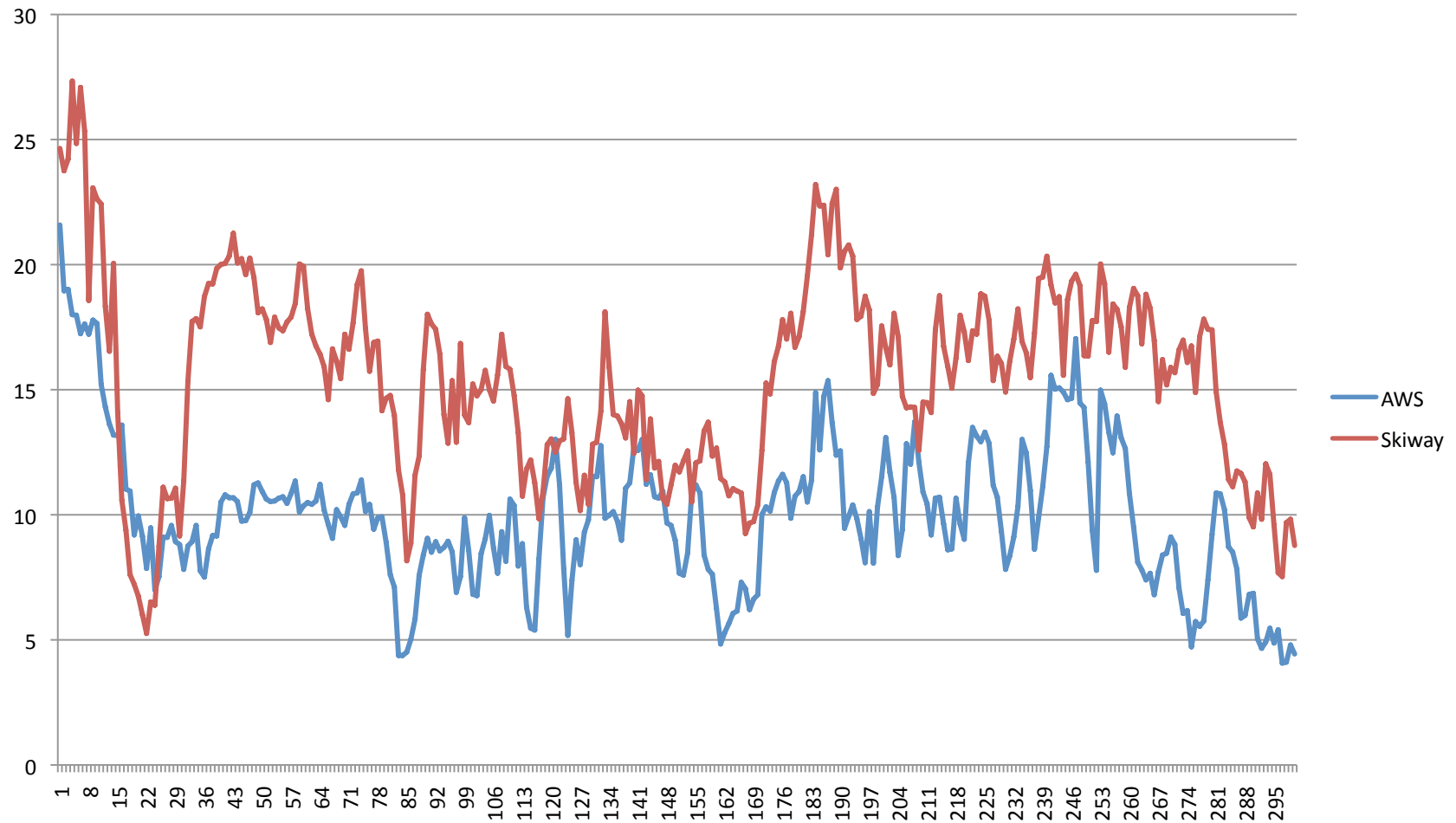
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Gust Speeds at Sky Blu AWS and Sky Blu Skiway

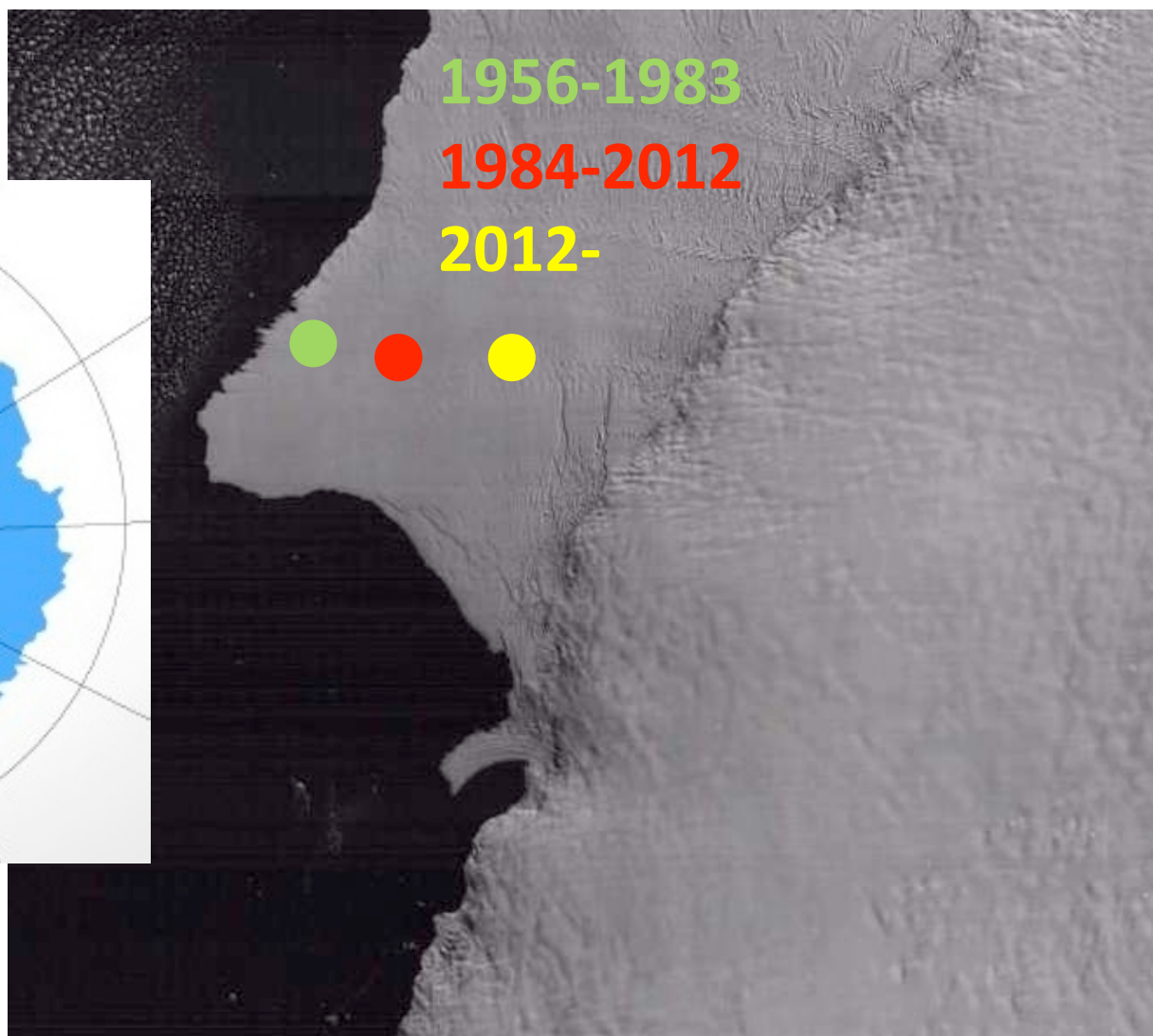


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Halley Temperatures

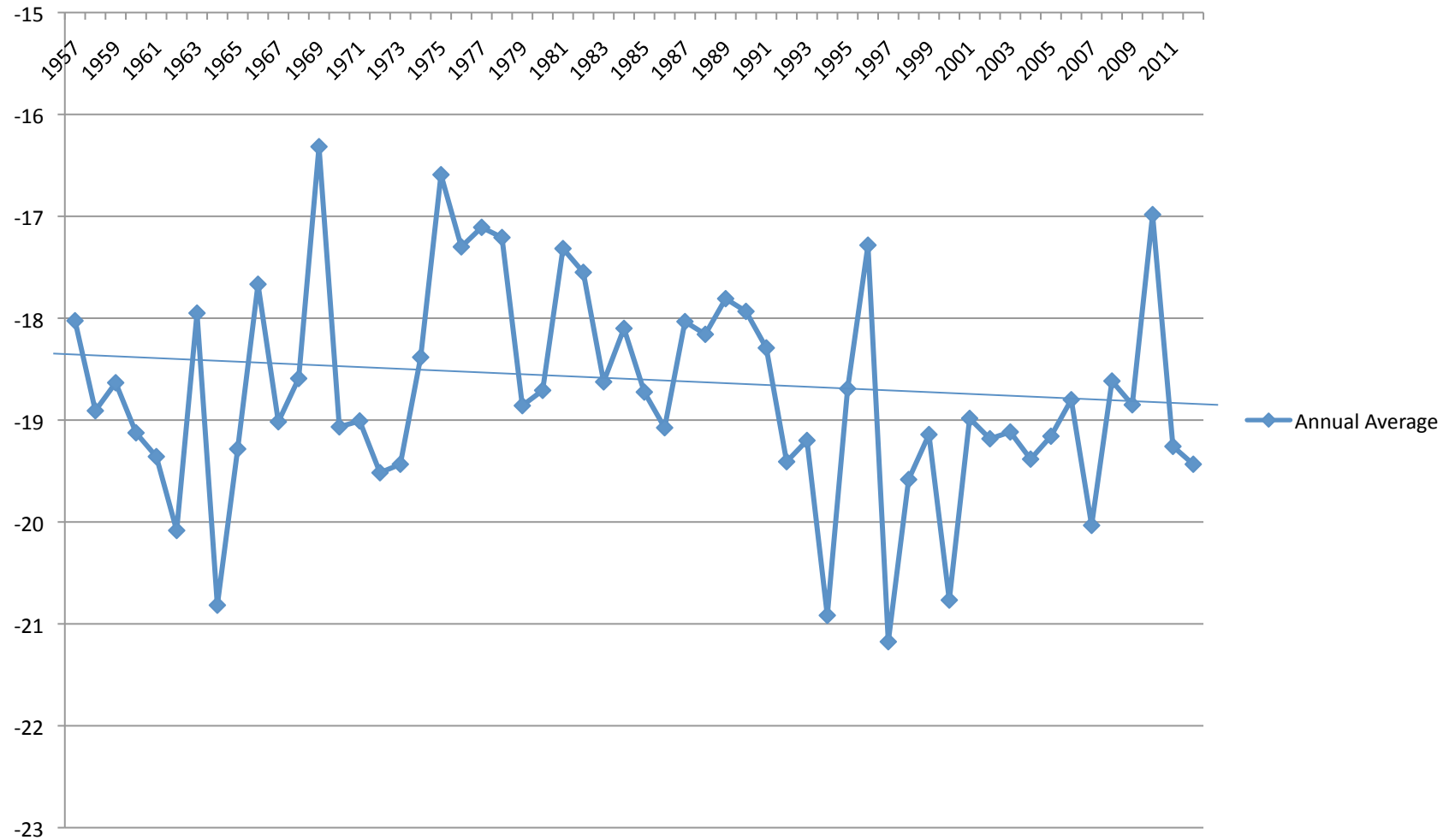


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Annual Average Temperature at Halley



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Setting up the AWS at Windy Bay, near Halley, April 2013



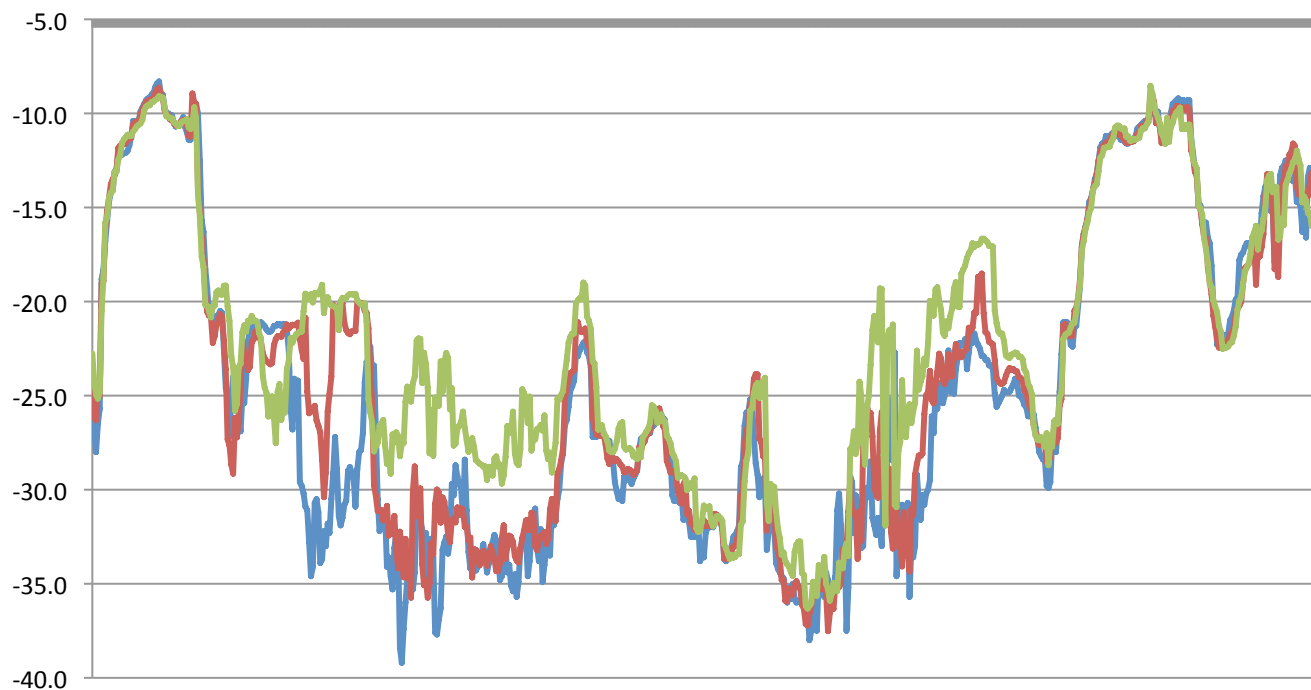
Photo: Holger Tulp



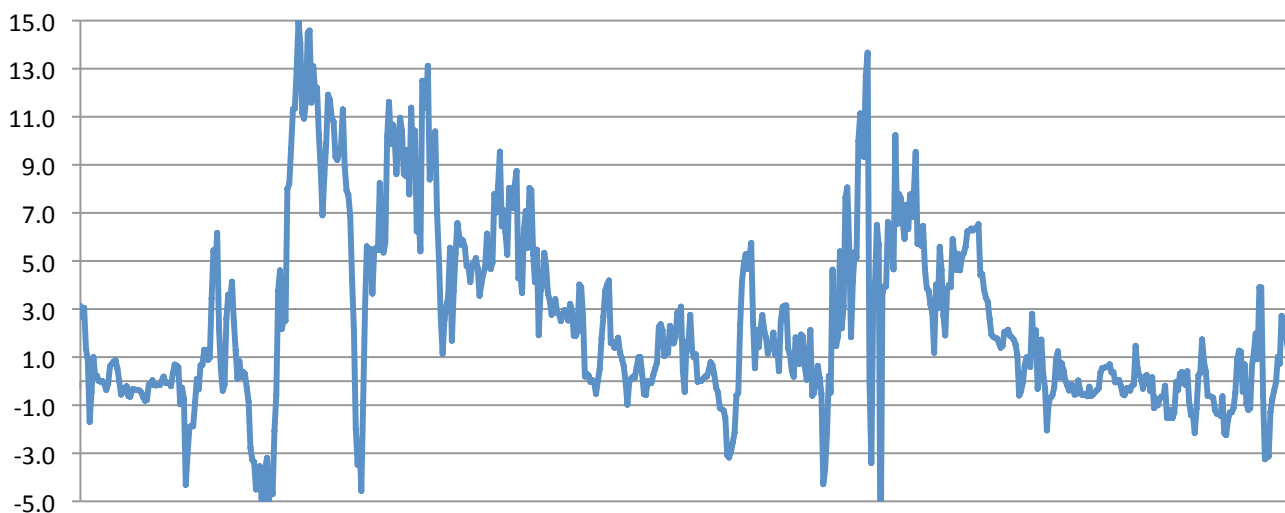
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Jaws
Z5
Windy



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The teams Rothera, Halley and the BAS Island Bases would like to thank the International Antarctic Meteorological Community for all their hard work and support providing data, improving models and generally cooperating to make our lives easier!



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