

Absolute Gravimetry

A10 measurements in Greenland and Denmark.

$$f(x+\Delta x) = \sum_{i=0}^{\infty} \frac{(\Delta x)^i}{i!} f^{(i)}(x)$$
$$\int_a^b \epsilon \Theta + \Omega \int \delta e^{i\pi} = \{2.7182818284\}$$
$$\sqrt{17}$$
$$\infty$$
$$\chi^2$$
$$\Sigma$$
$$!$$

A10

- The instrument
 - A10-019 purchased summer 2008.
 - Gravity is determined by measuring time and distance of a free falling body.
 - Gravity is measured 600 times.
 - Accuracy of $10 \mu\text{Gals}$.
 - g is determined at 0.718m.
- In the field
 - Runs on 12V batteries.
 - 150kg.
 - Sensitive to wind.



Thule

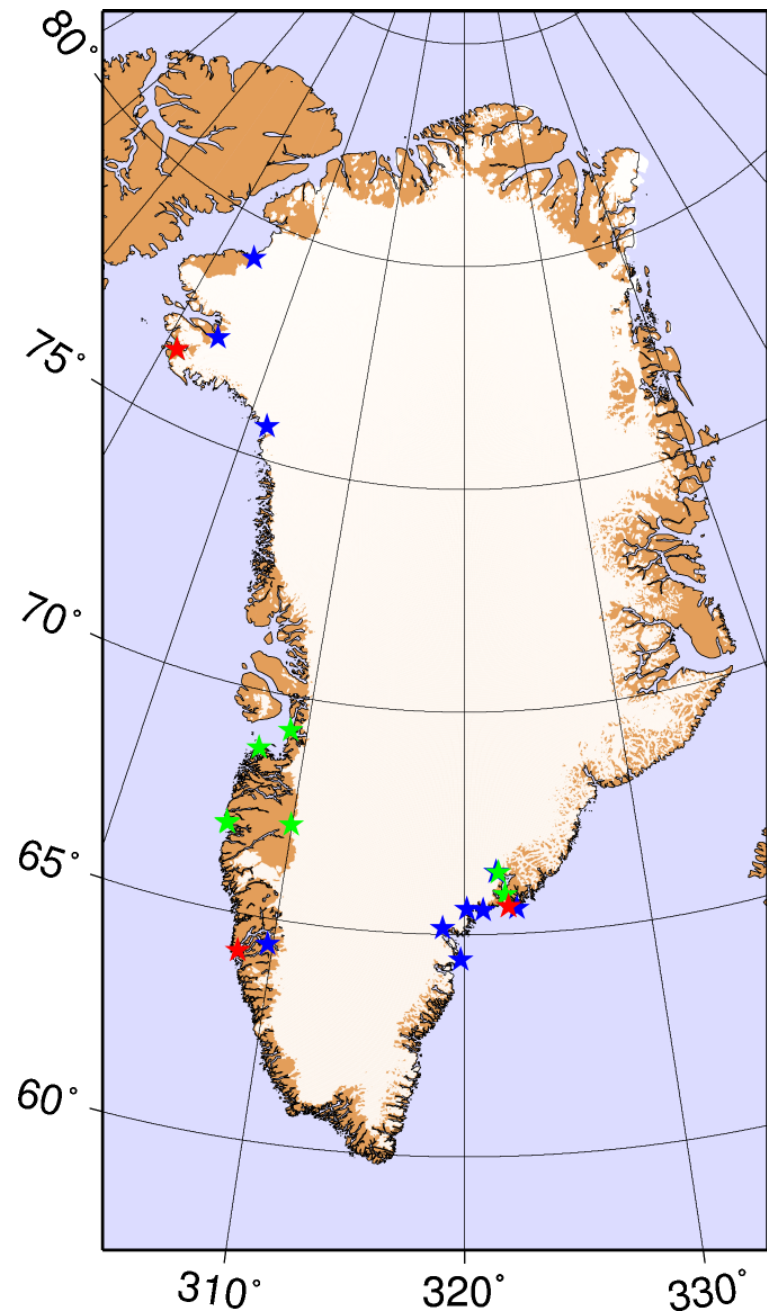
A10

- Gradient determination
- CG5
- Heights: ~ 45 – 130 cm.
- # and time of measurements
10 of 5-7 min.
- Not all places.



A10 - Greenland

- 3 campaigns in 2009.
- Total of 25 points measured.
 - 11 GNET.
 - 9 New points.
 - 5 Old points.
- Transport by car or helicopter.



A10 - Greenland

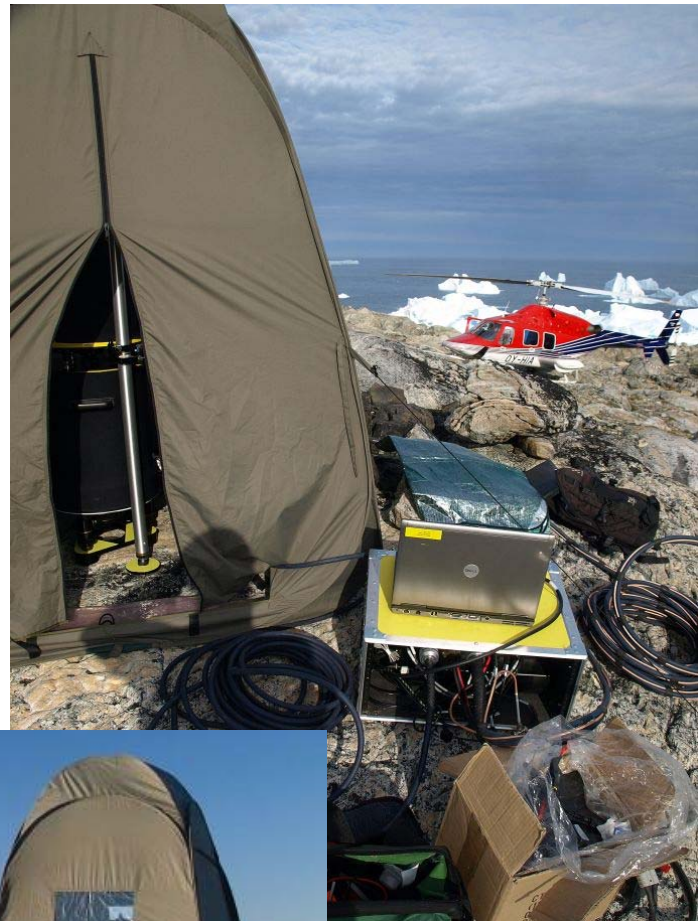
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Camp Tutu, Thule

A10 - Greenland

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Lynæs



Kap Agassiz

A10 - Denmark

- In 2008-2009, 5 points, Vestvolden, Helsingør, Gedser-GPS, Esbjerg-GPS and Esbjerg Airport.
- Transport by car.



Gedser

A10 – Future work

- Greenland
 - Repeating and new measurements at GNET stations.
 - Start/continue measurements of 1. order net.
- Denmark
 - Measurements at GPS stations.
 - Start/continue measurements of 1. order net.



Astrup Kystland