Antarctic Broadband: Fast Internet for the Bottom of the Earth

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9 August 2011
Short Range Forecast Predictions Indicate Demand Exceeding Capability
Fast internet for the bottom of the earth
Phase 1:
Nanosatellite Demo

Phase 2:
Operational Mission
Ka-Band Payload Prototype

| Mass          | 1.7 kg                     | Frequencies:       | Rx: 29.975 GHz  
|              |                           |                   | Tx: 19.725 GHz  
| Forward       | >100 dB Gain              | Forward and Return| <1 kHz          
|              | >25 dB Output Power       | Frequency Drift    |                   
|              | 16 MHz bandwidth          |                   |                   
| Return        | >100 dB Gain              | DC Power Consumption| <11 W           
|              | >10 dB Output Power       |                   |                   
|              | 500 kHz bandwidth         |                   |                   |
The AB Demonstrator
Antarctic Broadband – Phase 1
Antarctic Broadband – Phase 1
Ka-Band Dual Transponder Payload
ANU Ground Station
Acknowledgments

• Space Flight Laboratory
• Aerospace Concepts
• EM Solutions
• ANU Research School of Astronomy and Astrophysics
• Environmental Systems & Services (ES&S)
• Josephmark
• The Tauri Group