



POLAR SCIENCE
FOR PLANET EARTH

HALLEY VI

POLARTECH CONFERENCE 2012



**British
Antarctic Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

South
America

Stanley
Falkland
Islands

South Georgia
Bird
Island King Edward Point

Signy

Rothera

Fossil Bluff

Sky-Blu

Halley





HALLEY STATION

- **Construction of Halley I commenced during IGY 1956/1957**
- **Halley I to Halley IV were sub-surface stations**
- **Halley V is based on above surface jackable platforms**
- **Halley VI indentified as requirement in 2003 following possible risk of ice shelf break-away**

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LIVING IN ANTARCTICA



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HALLEY VI

- **Architectural competition – 86 responses**
- **Faber Maunsell, Aecom completed selected design**
- **Main contractor viwed the design to manufacture and construct**
- **Fabrication of panels and steel work in South Africa**
- **UK Contractor undertook site construction**

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TRIALS AND PRE-ERECTION TESTS

- **Module assembly in Cape Town**
- **Towing trials on site with test sledge**
- **Towing trials of module**
- **Overwinter module in Antarctica**
- **Snow model at RWDI**

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AFRICAN ACCESS
RENTAL







ERNEST SHACKLETON











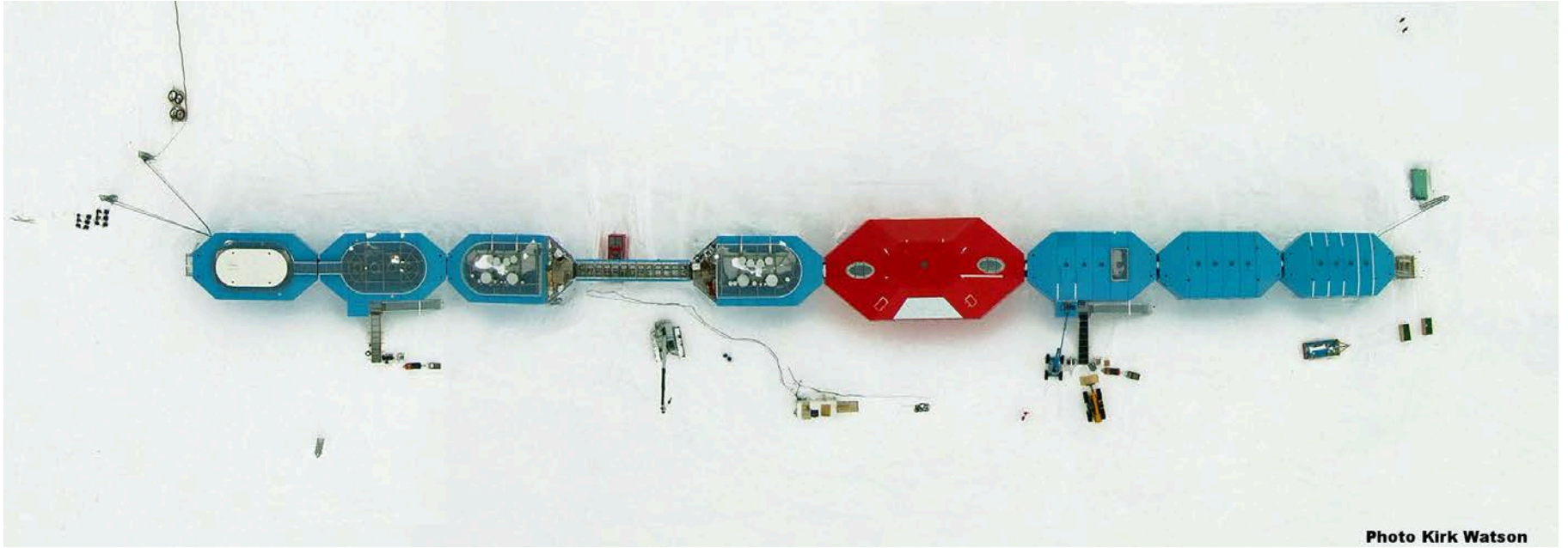


Photo Kirk Watson

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Photo Hugh Broughton



Photo Mike Rose

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HALLEY VI SCIENCE SYSTEM

- **Clean Air Facility**
- **Radar area – MF radar and Superdarn**
- **EM quiet area – VLF, magnetometers, riometers**
- **Dark area – optical monitoring systems, IR camera, OH emissions**
- **Weather observations, Dobson spectrophotometer, surface meteorology, balloon launch**

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Photo Luke Collins

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Any
Questions?