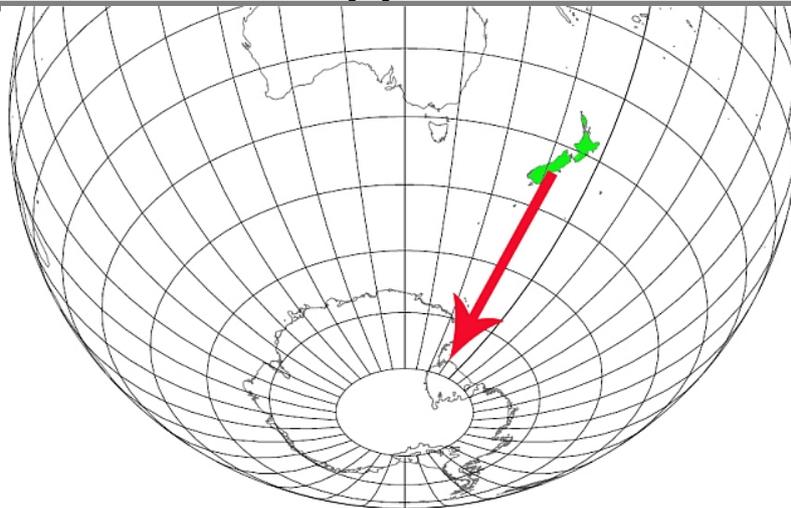


## [Antarctica - cool science in action](#) [1]



Welcome to **Antarctica - cool science in action**. This field trip is supported by the Ministry of Education, Antarctica New Zealand and Kelly Tarltons. The field trip is from **3-7 November 2014**. [Enrol now](#) [2].



### Introduction

Antarctica responds to climate change differently from other areas of the planet. It also has a major effect on world oceans and weather patterns. The frozen continent also provides unique ecosystems for a wide range of plants and animals. The impact from climate change on Antarctica's plants and animals is the focus of much international science research. On this exciting expedition you will join a science team from Otago University to investigate plant life found inside sea ice. You will help discover how important this food supply is for marine food webs and whether animals such as penguins and seals rely on this food supply.

## Antarctica - cool science in action

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You will dive below the sea ice; help collect samples at penguin colonies and seal 'haul outs'; take photos and use chemistry to trace energy from sea ice plant life all the way through food chains to penguins and seals.

Watch the [introductory video](#) [3] below.

View the [preview slideshow](#) [4] that gives students and teachers an overview of the field trip (PDF 1.4Mb).

### Location

You will take the 5 hour flight from Christchurch to Antarctica aboard a C17 Globemaster aircraft. After 3 days of Antarctic Field Skills Training you will be experienced and ready to join the research team at Scott Base (2km from the American McMurdo Station) in the Ross Sea region of Antarctica. This field trip is not for the faint hearted as temperatures in Antarctica in November can be as low as -40°C, so make sure you're prepared for a trip of a lifetime!

### Field Trip Plan - August 2014

Saturday and Sunday 1-2 November

Jump aboard the US Airforce C17 Globemaster aircraft in Christchurch and **read** about the journey to the great southern continent of Antarctica in the first [diary](#) [5]. **Watch** the [videos](#) [6] about Antarctic Field Training so you are ready and equipped to safely work with scientists out on the sea ice. **Read** the [ambassador updates](#) [7] and view the [panoramas](#) [8]

Monday 3 November

**Read** the [diary](#) [9] about the helicopter

flight out to Cape Bird and **watch** the

[videos](#) [6] to see how the scientists take

	<p>samples from the penguin colony. <b>Read</b></p> <p>the <a href="#">ambassador updates</a> [7] and view</p> <p>the <a href="#">panoramas</a> [10]. <b>Get</b> the</p> <p><a href="#">audioconference questions</a> [11] and</p> <p><b>listen</b> to the <a href="#">recorded audioconferences</a></p> <p>[12].</p>
Tuesday 4 November	<p><b>Read</b> the <a href="#">diary</a> [13] about the trip out to Cape Evans on skidoo and <b>watch</b> the <a href="#">videos</a> [6] about diving under the sea ice to takes photos and collect SIMCO. <b>View</b> the <a href="#">panoramas</a> [10] and read the <a href="#">ambassador updates</a> [7]. <b>Get</b> the <a href="#">audioconference questions</a> [14] and <b>listen</b> to the <a href="#">recorded audioconferences</a> [15].</p>
Wednesday 5 November	<p><b>Read</b> the <a href="#">diary</a> [16] about Kate's science work at Scott Base. <b>Watch</b> the <a href="#">videos</a> [6] about Antarctic cushion stars and urchins and the experiments which are being done on these animals. <b>Read</b> the <a href="#">ambassador updates</a> [7] and <b>view</b> the <a href="#">panoramas</a> [10]. <b>Get</b> the <a href="#">audioconference questions</a> [14] and <b>listen</b> to the <a href="#">recorded audioconferences</a> [15].</p>

Thursday 6 November	<p><b>Read</b> the <a href="#">diary</a> [17] about drilling holes in the sea ice to go ice fishing. <b>Watch</b> the <a href="#">videos</a> [6] to find out more about the benthic community living on the sea floor under the sea ice. <b>Get</b> the <a href="#">questions</a> [14] to the audioconferences and <b>listen</b> to the <a href="#">audioconference recordings</a>. [12] <b>Read</b> the <a href="#">ambassador updates</a> [17] and <b>view</b> the <a href="#">panoramas</a> [10].</p>
Friday 7 November	<p><b>Watch</b> the <a href="#">videos</a> [6] of Weddell seals and <b>read</b> the <a href="#">diary</a> [18] about how these seals fit into the Antarctic marine foodweb. <b>View</b> the <a href="#">panoramas</a> [10] and read the <a href="#">ambassador updates</a> [7]. <b>Get</b> the <a href="#">questions</a> [14] to the audioconferences and <b>listen</b> to the <a href="#">audioconference recordings</a> [12].</p>

## What's New

Tuesday 30 September	<p><a href="#">Newsletter 1</a> [19] was sent to all enrolled classes.</p>
Tuesday 30 September	<p>The <i>Antarctica</i> <a href="#">background pages</a> [20] and their <a href="#">easy-reading versions</a> [21] and student <a href="#">activities</a> [22] are now online.</p>
Tuesday 30 September	<p>The <i>Antarctica</i> field trip website is now online. [23]</p>



### Links

- [1] <http://www.learnz.org.nz/scienceonice144>
- [2] <http://www.mylearnz.org.nz/account/enrol>
- [3] <http://vimeo.com/108950367>
- [4] <http://www.learnz.org.nz/sites/learnz.org.nz/files/si144-preview.pdf>
- [5] <http://www.learnz.org.nz/scienceonice144/diary-1>
- [6] <http://www.learnz.org.nz/scienceonice144/videos>
- [7] <http://www.learnz.org.nz/scienceonice144/ambassadors>
- [8] <http://www.learnz.org.nz/scienceonice144/>
- [9] <http://www.learnz.org.nz/scienceonice144/diary-2>
- [10] <http://www.learnz.org.nz/scienceonice144/panoramas>
- [11] <http://scienceonice144.learnz.org.nz/index.php?vft=scienceonice144&dir=audio/qn&page=index>
- [12] <http://scienceonice144.learnz.org.nz/index.php?vft=scienceonice144&dir=audio/arch&page=index>
- [13] <http://www.learnz.org.nz/scienceonice144/diary-3>
- [14] <http://scienceonice144.learnz.org.nz/controller.php?vft=scienceonice144&dir=audio/qn&page=index>
- [15] <http://scienceonice144.learnz.org.nz/controller.php?vft=scienceonice144&dir=audio/arch&page=index>
- [16] <http://www.learnz.org.nz/scienceonice144/diary-4>
- [17] <http://www.learnz.org.nz/scienceonice144/diary-5>
- [18] <http://www.learnz.org.nz/scienceonice144/diary-6>
- [19] <http://www.learnz.org.nz/scienceonice144/newsletter-1>
- [20] <http://www.learnz.org.nz/scienceonice144/bg-standard>
- [21] <http://www.learnz.org.nz/scienceonice144/bg-easy>
- [22] <http://www.learnz.org.nz/scienceonice144/activities>
- [23] <http://www.learnz.org.nz/memorialpark142/newsletter-3>