

Question	Evidence		
1	<b>Basic answer:</b> Some terms identified such as environment, continent, latitude, sovereignty, landmass, sustainable, pristine, resources, climate change, ice shelf, glacier, polar, plateau	<b>Complex answer:</b> A range of terms identified PLUS Relevant definitions given for most.	<b>Excellence answer:</b> A thorough selection of terms identified PLUS Definitions accurate for most.
2	<b>Basic answer:</b> Antarctic Treaty		
3	<b>Basic answer:</b> <ul style="list-style-type: none"> <li>• identifies an option and gives reasons why it is important</li> <li>• Some supporting evidence used</li> </ul>	<b>Complex answer:</b> <ul style="list-style-type: none"> <li>• identifies an option and gives reasons why it is more important than other options</li> <li>• numerous supporting evidence used</li> </ul>	
4	<b>Basic answer:</b> <ul style="list-style-type: none"> <li>• Southern hemisphere</li> <li>• Southern most continent</li> </ul>	<b>Complex answer:</b> <ul style="list-style-type: none"> <li>• Mainly between latitudes 66°S and 90°S</li> <li>• Surrounded by Oceans such as Indian and Pacific</li> <li>• South of Africa and South America</li> </ul>	
5		<b>Complex answer:</b> Valkyrie Dome – Natural Vostock Research Station – Cultural Rothera Research Station – Cultural	
6	<b>Basic answer:</b> 90°S 78- 83°S 76 - 81°S	<b>Complex answer:</b> 90°S 80-81°S 77-79°S	
7	<b>Basic answer:</b> South		
8	<b>Basic answer:</b> India USA UK Russia France Japan Australia NZ		
9	<b>Basic Answer:</b> 1300 – 1600km	<b>Complex answer:</b> 1400-1500km	
10	<b>Basic Answer:</b> Reference to Antarctica being in light between March – Oct.	<b>Complex answer:</b> Reference to Antarctica facing the sun so is in light between March – Oct resulting in warmer temps	

		making travel possible. Should use terms such as “axis”, “Antarctic circle”.	
11	<b>Basic Answer:</b> 3832km		
12		<b>Complex Answer:</b> Transantarctic Mountains	
13		<b>Complex answer:</b> 3832 + 1353 = 5185km	
14	<b>Basic answer:</b> East		
15	<b>Basic Answer:</b> Ronne Ice Shelf Ross Ice Shelf		
16	<b>Basic Answer:</b> Line graph drawn with some accuracy – incl. plotting of data and use of conventions. See Appendix 1	<b>Complex answer:</b> Line graph drawn with a high degree of accuracy incl. Plotting of data and use of conventions.  See Appendix 1	
17	<b>Basic answer:</b> <ul style="list-style-type: none"> <li>• Implies fluctuation: “up and down” etc.</li> <li>• Tend to experience increase/decreases at the same time</li> </ul>	<b>Complex answer:</b> Pattern explicit. Data is used to support answer.	
18	<b>Basic answer:</b> 19.4 million km <sup>2</sup>		
19	<b>Basic answer:</b> 2006/7 and 2012/13	<b>Complex answer:</b> 2007 and 2013	
20-22	<b>Basic answer:</b> 18.96 million km <sup>2</sup>		
21	<b>Basic answer:</b> 3.23 million km <sup>2</sup>		
22	<b>Basic answer:</b> 15.73 million km <sup>2</sup>		
23	<b>Basic answer:</b> Makes a link between temp and ice extent and gives a reason. Some reference to the data is made.	<b>Complex answer:</b> Makes a link between temp and ice extent. Gives a detailed reason using supporting data.	<b>Excellence answer:</b> Makes a link between temp and ice extent. Gives detailed reason(s) using supporting data and geo terminology.
24	<b>Basic answer:</b> Some features identified with supporting evidence.	<b>Complex answer:</b> Features identified with supporting evidence and an explanation is given as to why they are significant.	
25/26	<b>Basic answer:</b> 4 people located on continuum AND A reason given for the location of 2 of them.	<b>Complex answer:</b> 4 people located on continuum AND The perspective for 2 of them is identified with a supporting	

		explanation.	
27	<b>Basic Answer:</b> Précis map drawn with some accuracy – incl. location of features and use of conventions. See appendix 2	<b>Complex answer:</b> Précis map drawn with a high degree of accuracy – incl. location of features and use of conventions. See appendix 2	
28		<b>Complex answer:</b> West	
29	<b>Basic answer:</b> 30 -40km	<b>Complex answer:</b> 34-38km	
30	<b>Basic answer:</b> Précis sketch drawn with some accuracy – incl. location of features and use of conventions. See appendix 3	<b>Complex Answer:</b> Précis sketch drawn with a high degree of accuracy – incl. location of features and use of conventions. See appendix 3	
31	<b>Basic answer:</b> Cross section drawn with some accuracy – incl. location of features and use of conventions. See appendix 4	<b>Complex answer</b> Cross Section drawn with a high degree of accuracy – incl. location of features and use of conventions. See appendix 4	
32	<b>Basic answer:</b> <ul style="list-style-type: none"> <li>• Travelled less distance</li> <li>• Larger proportion of the trip on the Ross Ice Shelf</li> <li>• Shorter distance on the polar plateau</li> <li>• Glacier was shorter</li> </ul>	<b>Complex answer:</b> As for basic but both problems need to be explained (i.e. why were they an advantage)	
33	<b>Basic answer:</b> Précis map drawn with some accuracy – incl. location of features and use of conventions. See appendix 5	<b>Complex Answer:</b> Précis map drawn with a high degree of accuracy – incl. location of features and use of conventions. See appendix 5	
34	Basic answer: 2km		
35	<b>Basic answer:</b> Cross section drawn with some accuracy – incl. use of conventions. See appendix 6	<b>Complex answer:</b> Cross Section drawn with a high degree of accuracy – incl. use of conventions. See appendix 6	
36	<b>Basic answer:</b> 2 of <ul style="list-style-type: none"> <li>• Castle rock – natural</li> <li>• Scott Base – cultural</li> <li>• Kiwi Ski Slope - cultural</li> </ul>	<b>Complex answer:</b> All 3 correct	
37	<b>Basic answer</b> <b>Relationship</b> = As wind	<b>Complex answer:</b> As with basic <b>plus</b> use of	

	energy rises, diesel energy falls. <b>Reason</b> = wind energy is renewable so is preferred over diesel whenever possible.	supporting data from the graph.	
38	<b>Basic answer:</b> Any 3 of <ul style="list-style-type: none"> <li>• Seals</li> <li>• Penguins</li> <li>• Flying birds</li> <li>• Baleen Whales</li> <li>• Silverfish</li> <li>• Squid</li> </ul>	<b>Complex answer:</b> All 6 predators identified	
39	<b>Basic Answer:</b> One of <ul style="list-style-type: none"> <li>• Toothed Whales</li> <li>• Seals</li> </ul>	<b>Complex Answer:</b> Both <ul style="list-style-type: none"> <li>• Toothed Whales</li> <li>• Seals</li> </ul>	
40	<b>Basic Answer:</b> Toothfish		
41	<b>Basic Answer:</b> Bar graph drawn with some accuracy – incl. plotting of data and use of conventions. See Appendix 7	<b>Complex Answer:</b> Bar graph drawn with a high degree of accuracy – incl. plotting of data and use of conventions. See Appendix 7	
42	<b>Basic answer:</b> Reference must be made to either a Tooth Whales being disadvantaged OR Other competing species (eg penguins) being advantaged due to less competition for food (eg Silverfish)	<b>Complex answer:</b> Reference must be made to either a Tooth Whales being disadvantaged AND Other competing species (eg penguins) being advantaged due to less competition for food (eg Silverfish) PLUS Specific evidence from resources included.	
43	<b>Basic Answer:</b> Statistical map drawn with some accuracy – incl. plotting of data and use of conventions. See Appendix 8	<b>Complex Answer:</b> Statistical map drawn with a high degree of accuracy – incl. plotting of data and use of conventions. See Appendix 8	

## Concept checklist

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### **Understanding of the concept:**

#### **Answer shows an understanding of the concept of environments by:**

- Describes the location of the environment
- Describes some natural AND cultural features in the environment
- Attempts to explain why the features are significant
- Includes some specific information from the resources

### **In depth understanding of the concept:**

#### **Answer shows an in-depth understanding of the concept of environments by:**

- Describes the location in some detail
- Describes a range of natural AND cultural features of the environment in detail
- Explains in detail why some of the features are significant
- Includes a range of specific information from the resources

### **Comprehensive understanding of the concept:**

#### **Answer shows a comprehensive understanding of the concept of environments by:**

- Describes the location in some detail
- Describes a range of natural AND cultural features of the environment in detail
- Explains in detail why most of the features are significant
- Includes geographic terms (including concept terms) throughout
- Includes specific information from the resources throughout

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### **Understanding of the concept:**

#### **Answer shows an understanding of the concept of change by:**

- Explains some changes that are occurring in the environment
- Categorises these changes in some way (e.g. spatial, temporal etc.)
- Includes some specific information from the resources

### **In depth understanding of the concept:**

#### **Answer shows an in-depth understanding of the concept of change by:**

- Explains in detail a range of changes that are occurring in the environment
- Effectively categorises the changes (e.g. spatial, temporal etc.)
- Includes a range of specific information from the resources

### **Comprehensive understanding of the concept:**

#### **Answer shows a comprehensive understanding of the concept of change by:**

- Explains in detail a range of changes that are occurring in the environment
- Extensively categorises the changes (e.g. spatial, temporal etc.)
- Includes geographic terms (including concept terms) throughout
- Includes specific information from the resources throughout

**Understanding of the concept:****Answer shows an understanding of the concept of Sustainability by:**

- Identifies some ways our needs are being met in Ross Island/Sea area
- Explains some issues surrounding meeting these needs
- Explains a method employed to decrease the impact of these issues
- Makes a justified statement regarding the sustainability of NZ involvement in Antarctica
- Includes some specific information from the resources

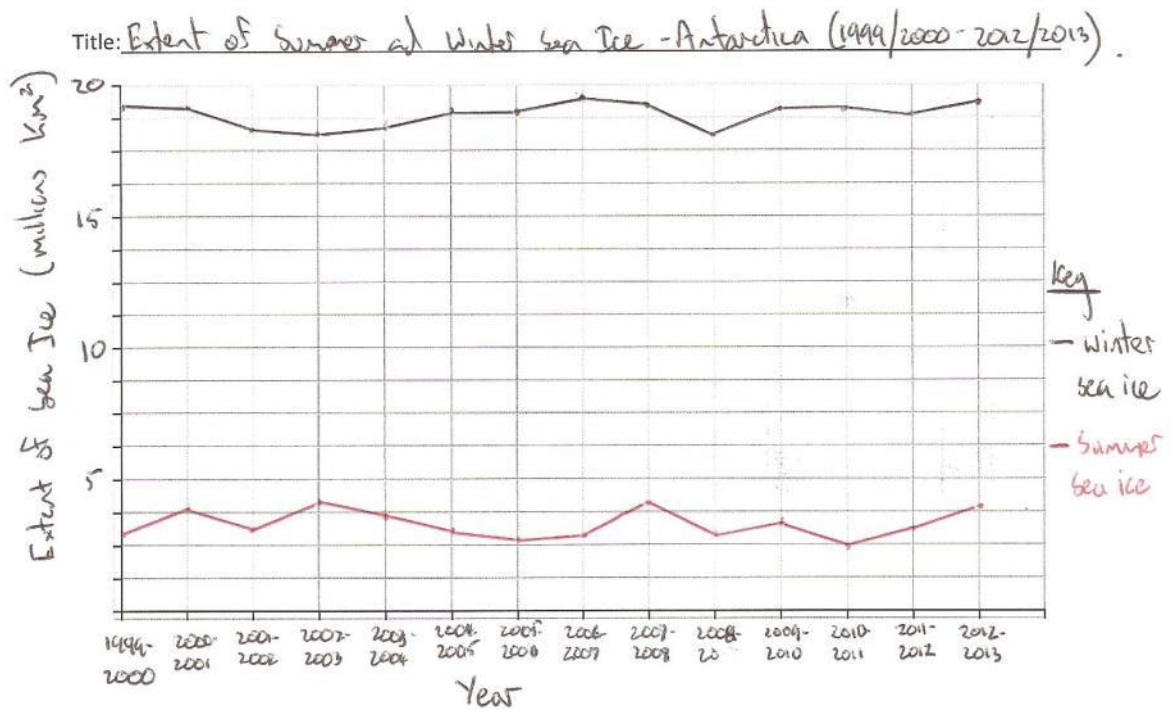
**In depth understanding of the concept:****Answer shows an in depth understanding of the concept of Sustainability by:**

- Identifies a range of ways our needs are being met in Ross Island/Sea area
- Explains a range of issues surrounding meeting these needs
- Explains methods employed to decrease the impact of these issues
- Justifies, in detail, the sustainability (or otherwise) of NZ involvement in Antarctica
- Includes a range of specific information from the resources

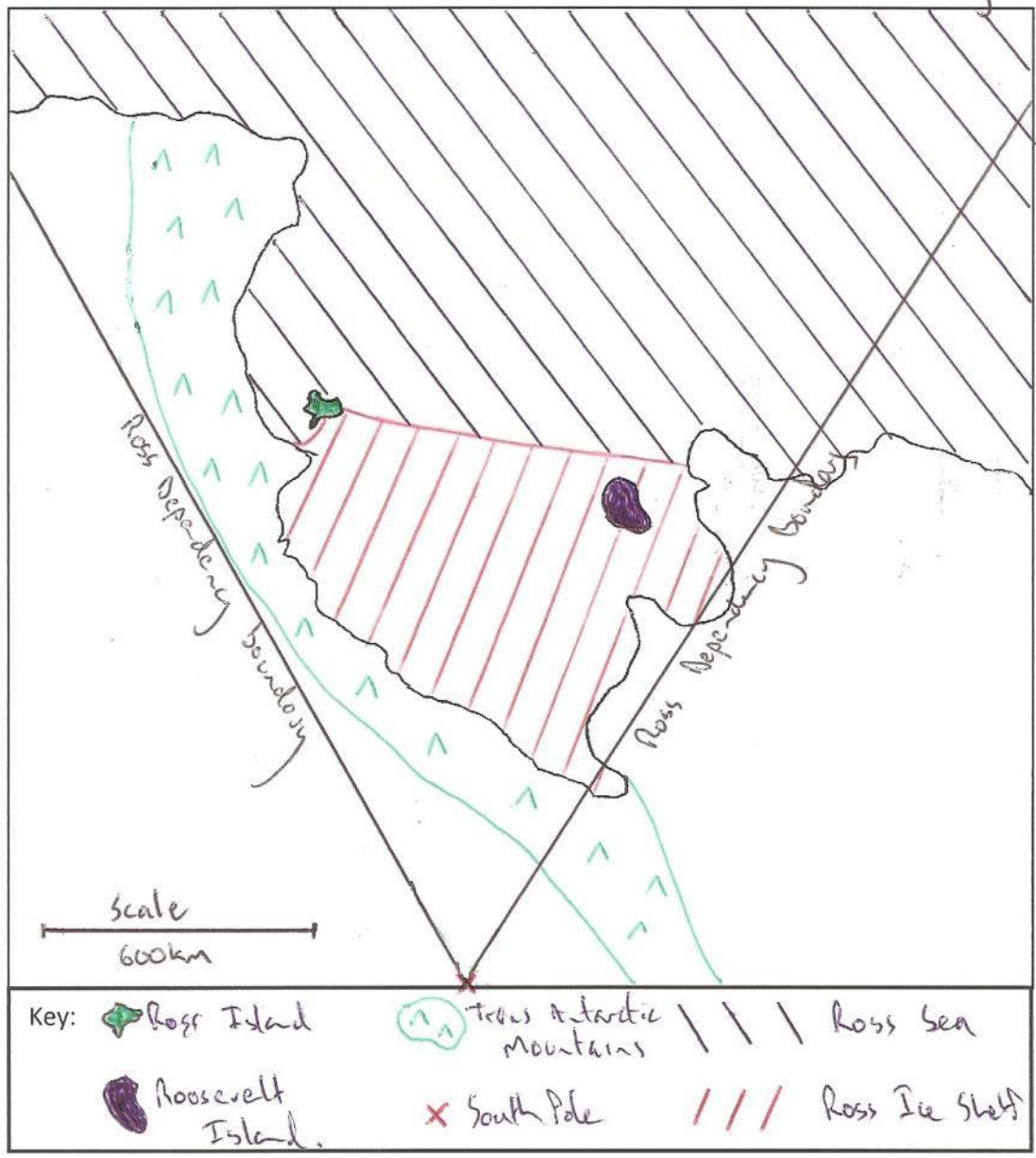
**Comprehensive understanding of the concept:****Answer shows a comprehensive understanding of the concept of Sustainability by:**

- Identifies a range of ways our needs are being met in Ross Island/Sea area
- Explains a range of issues surrounding meeting these needs
- Explains methods employed to decrease the impact of these issues
- Fully justifies the sustainability (or otherwise) of NZ involvement in Antarctica
- Includes geographic terms (including concept terms) throughout
- Includes specific information from the resources throughout

Appendix 1



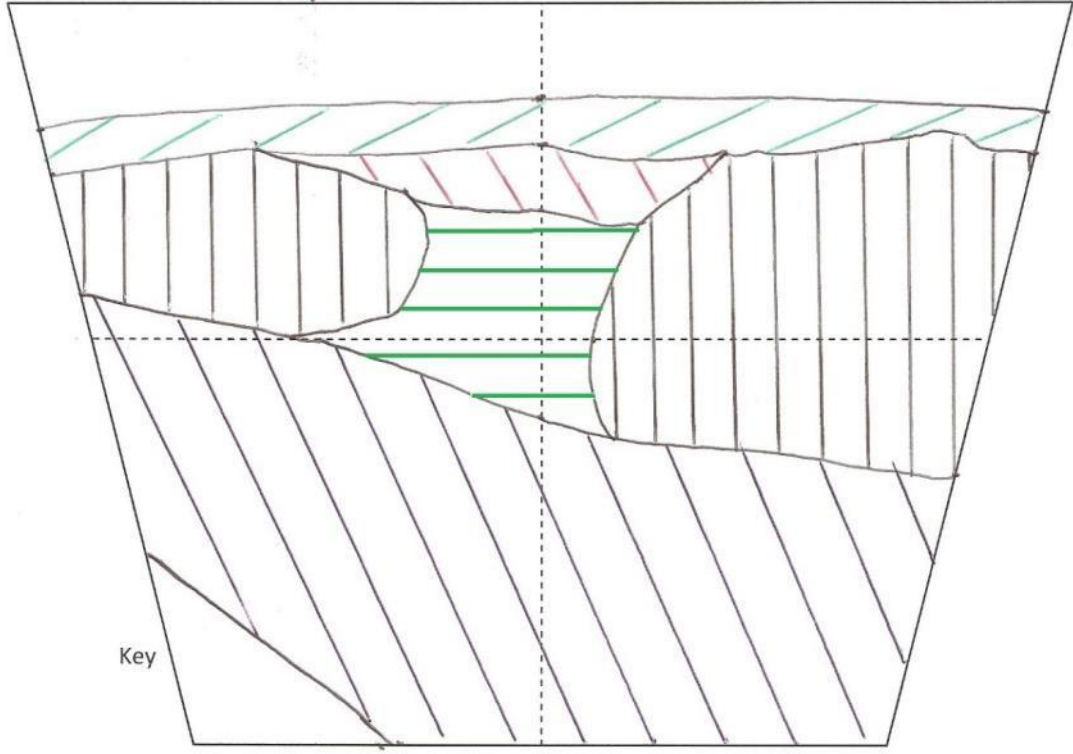
Title: Natural Features of the Ross Dependency




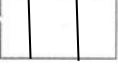





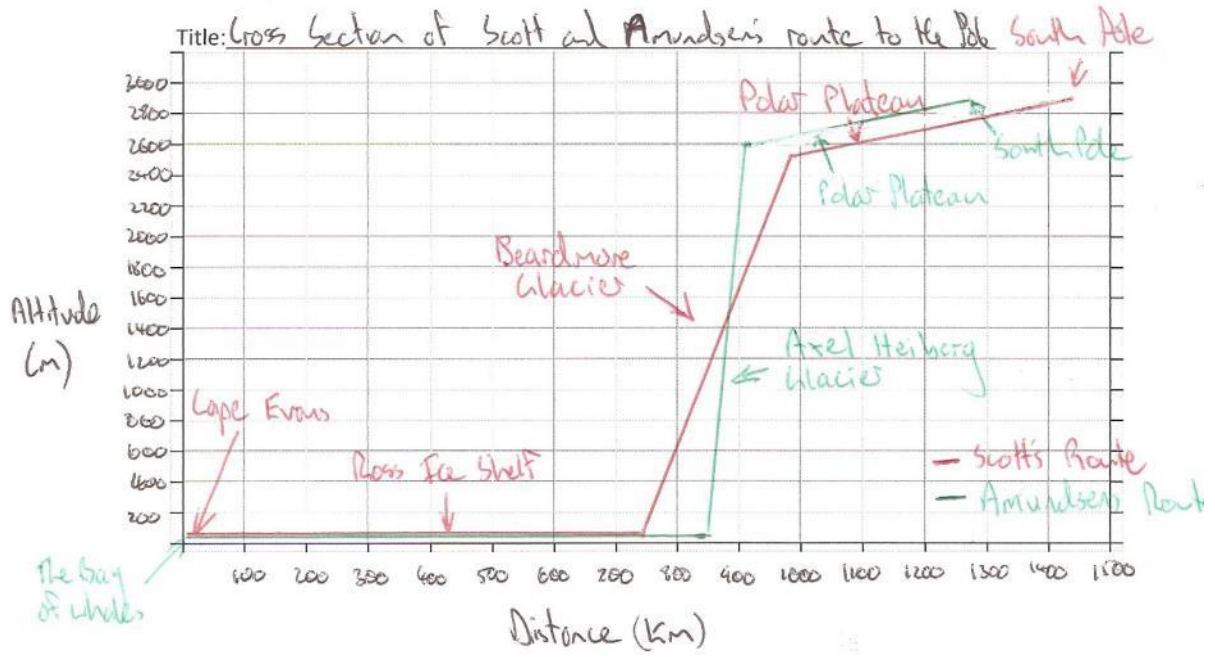
Appendix 3

Title: The Dry Valleys - Antarctica



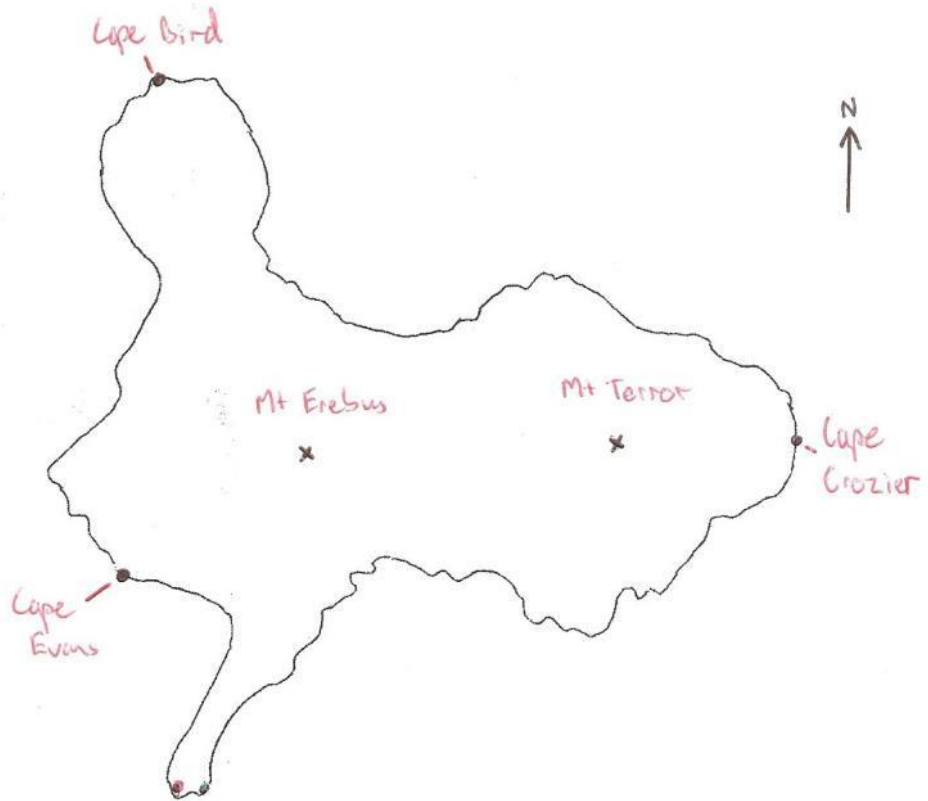
Trans Antarctic Mountains		Wright Valley	
McKelvey valley		Olympus Range	
Bull Pass			

Appendix 4



Appendix 5

Title: Ross Island.

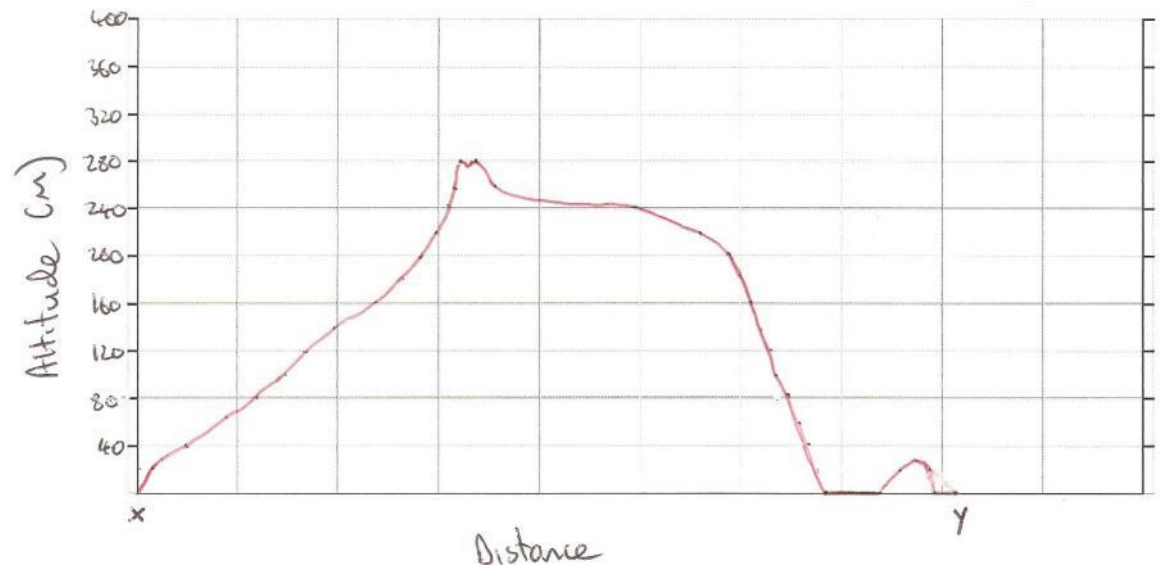


Key

Mt Erebus		Cape Crozier	
Cape Bird		McMurdo Station	•
Cape Evans		Mt Terra Nova	
scott base	•		

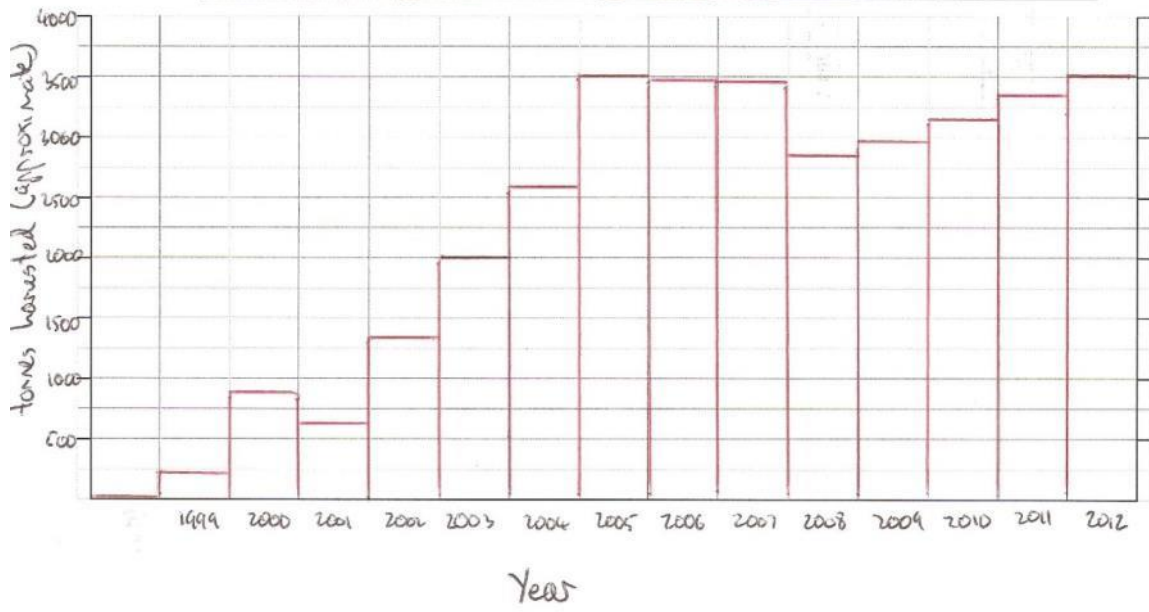
Appendix 6

Title: Cross Section of Hut Peninsula - Ross Island (x-y)



Appendix 7

Title: Tooth fish harvest in the Fox sea since 1998



Appendix 8

