

# Mission Antarctica

## Learning Objectives

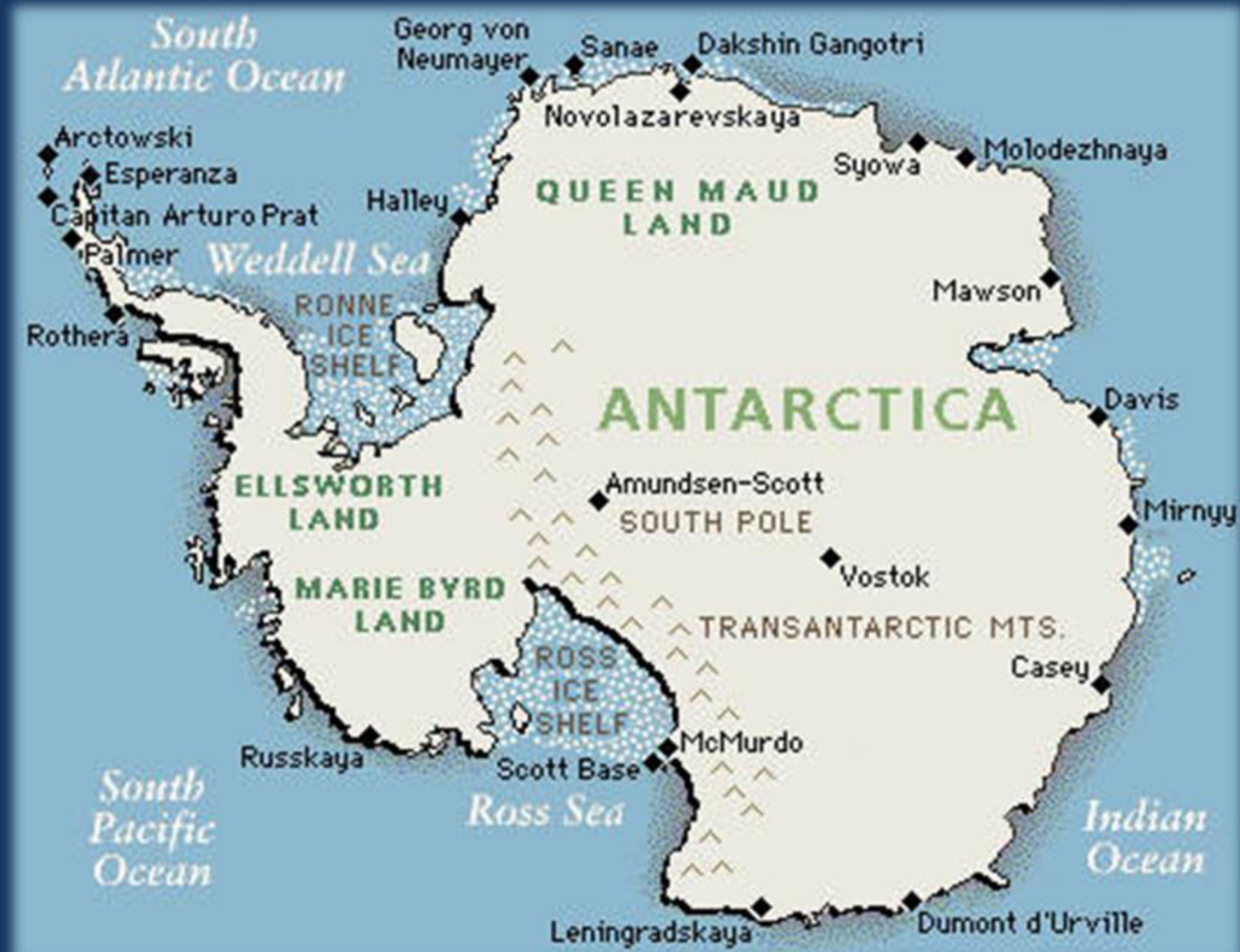
- ALL – to know the location of Antarctica
- MOST – to know the climate of Antarctica
- SOME – to compare Antarctica with the UK



# MAP OF ANTARTICA

You will be shown a map of the Antarctica.

Working with a partner to share ideas, you will have 30 seconds to study the map and memorise it. You will then get 2 minutes to write down what you can remember. You will repeat this process 3 times until you have built up a complete and detailed map.



Names of  
places?

**DRAW WHAT YOU REMEMBER!!**

Drawn the  
ice  
shelves?



# LOCATION OF ANTARCTICA



## WRITTEN LOCATIONS

Use the map to the left to write a short paragraph locating Antarctica. Consider the following:

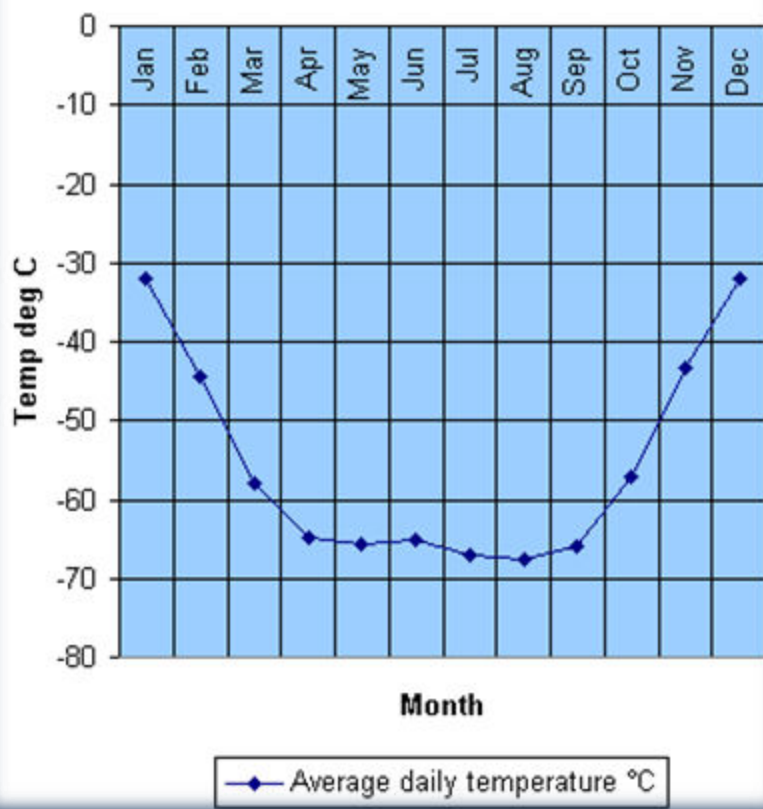
Nearby continents and countries, surrounding seas and oceans, lines of longitude and latitude.

# LIVING GRAPHS

Read the quotes from diaries of researchers and scientists at Rothera research station in Antarctica and try to match up their statements with the correct month of the year using the climate data graph.



## Vostok, Annual Temperature



It's the shortest and darkest day of the year. Tonight, the twenty of us still here are going to celebrate the winter solstice with a big party. Skiing on the sea ice has been fun too - it is the closest thing to walking on water!

There may be no trees here for leaves to fall off, but it's getting colder and we are one step closer to winter. Those leaving soon are talking about the things they are going to do when they get home - have a pint of draught Guinness or go on holiday to a very hot, sunny place!

Days are now shorter, temperatures lower, snowfall heavier and most of the wildlife has bid us farewell for warmer climes.

The solar panels and weather stations outside bang and clatter in the severe gales, so I haven't got much sleep lately. Diving beneath the ice is one way to escape the wind, but once we're back on the surface it doesn't take long for the bitter cold to freeze moulding our dry suits to our bodies.

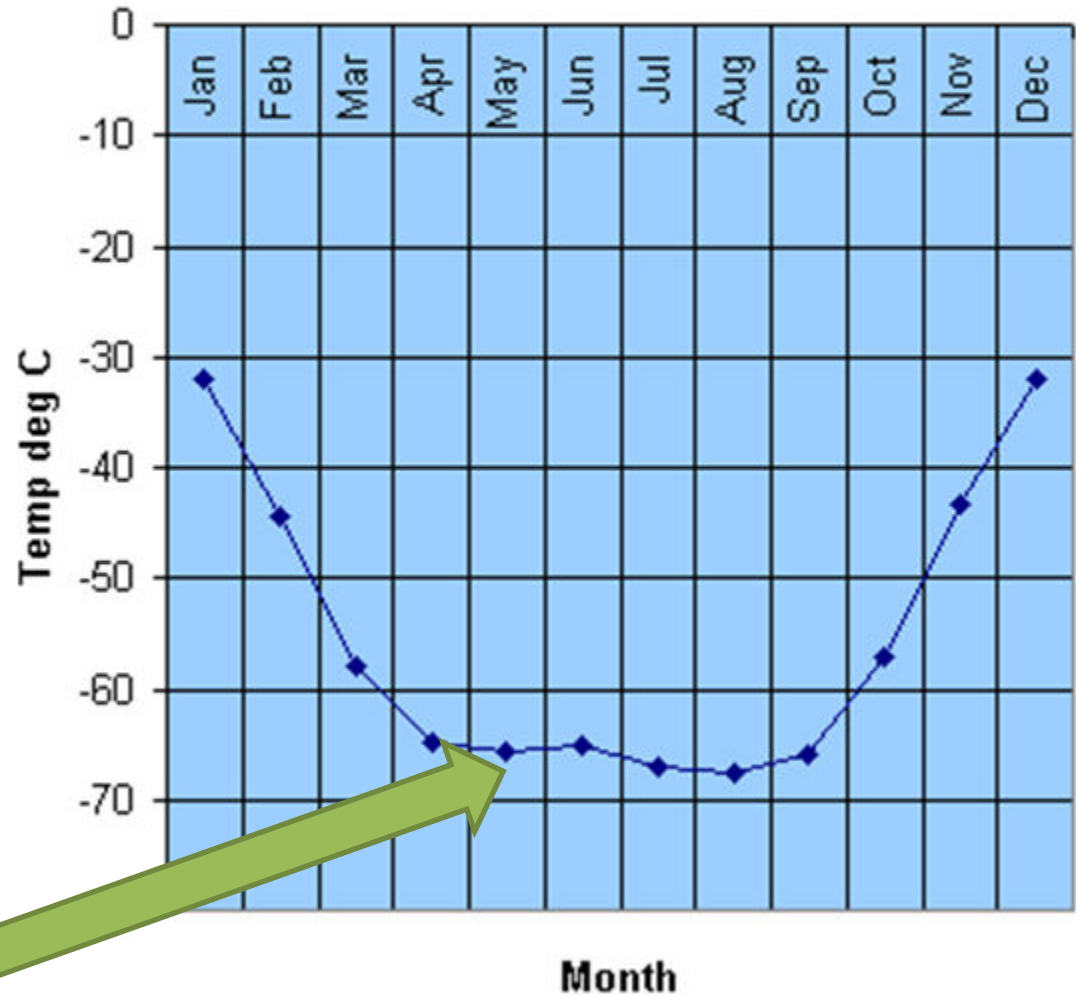
The weather is superb. Just imagine being here, sitting on the veranda, sun tan lotion and sunglasses on, watching seal pups playing together - how lucky are we!

# ANSWERS

## June

It's the shortest and darkest day of the year. Tonight, the twenty of us still here are going to celebrate the winter solstice with a big party. Skiing on the sea ice has been fun too - it is the closest thing to walking on water!

Vostok, Annual Temperature



—◆— Average daily temperature °C



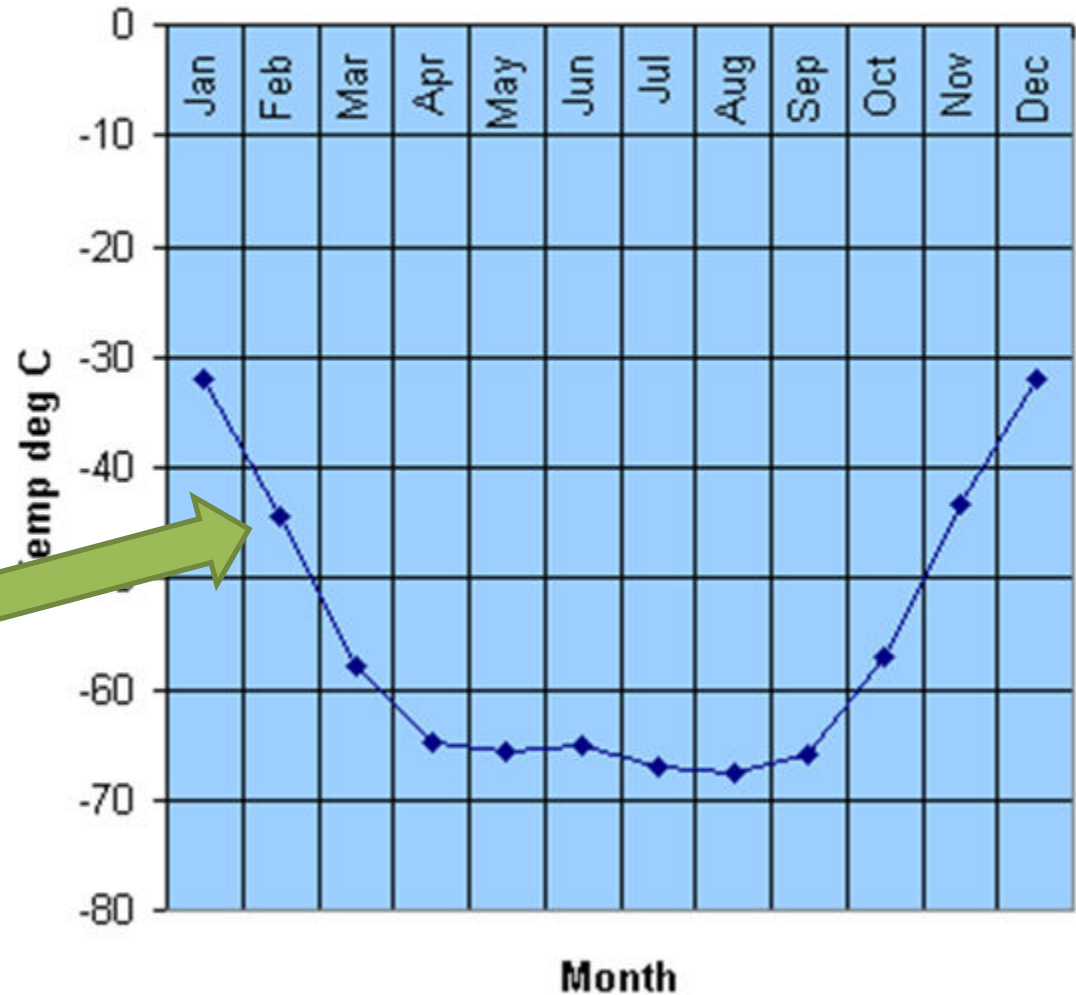
# ANSWERS

## February

There may be no trees here for leaves to fall off, but it's getting colder and we are one step closer to winter. Those leaving soon are talking about the things they are going to do when they get home - have a pint of draught Guinness or go on holiday to a very hot, sunny place!



Vostok, Annual Temperature

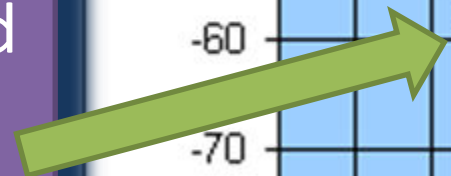


—◆— Average daily temperature °C

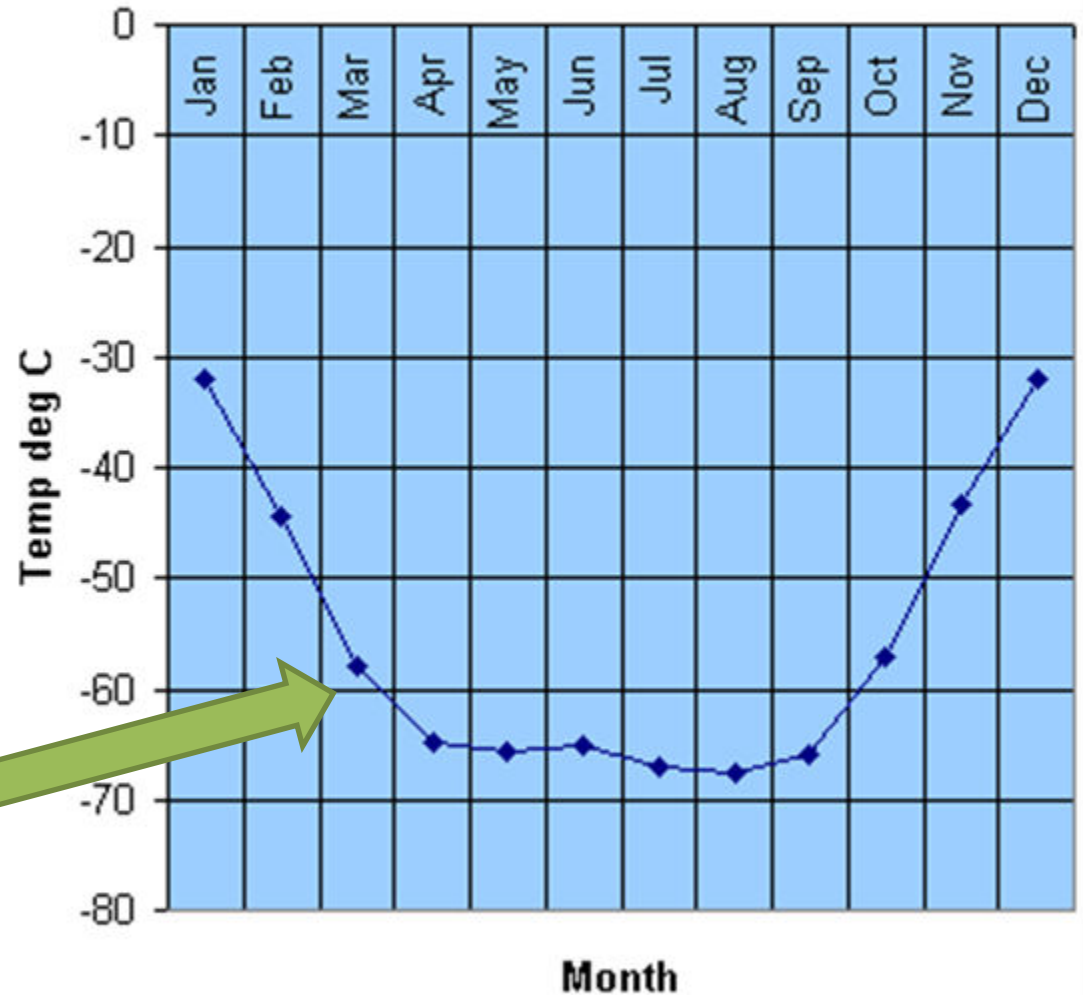
# ANSWERS

## April

Days are now shorter, temperatures lower, snowfall heavier and most of the wildlife has bid us farewell for warmer climes.



Vostok, Annual Temperature



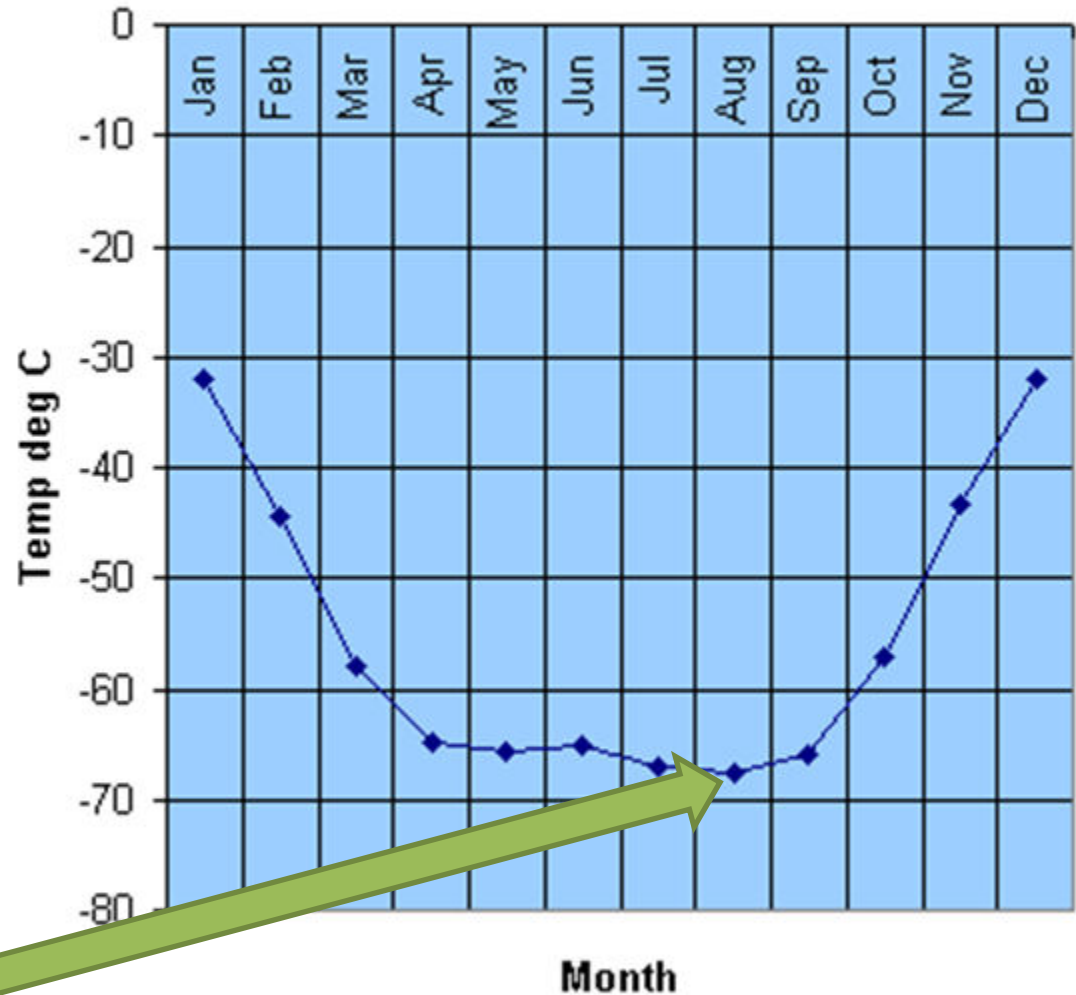
—◆— Average daily temperature °C

# ANSWERS

## August

The solar panels and weather stations outside bang and clatter in the severe gales, so I haven't got much sleep lately. Diving beneath the ice is one way to escape the wind, but once we're back on the surface it doesn't take long for the bitter cold to freeze moulding our dry suits to our bodies.

Vostok, Annual Temperature



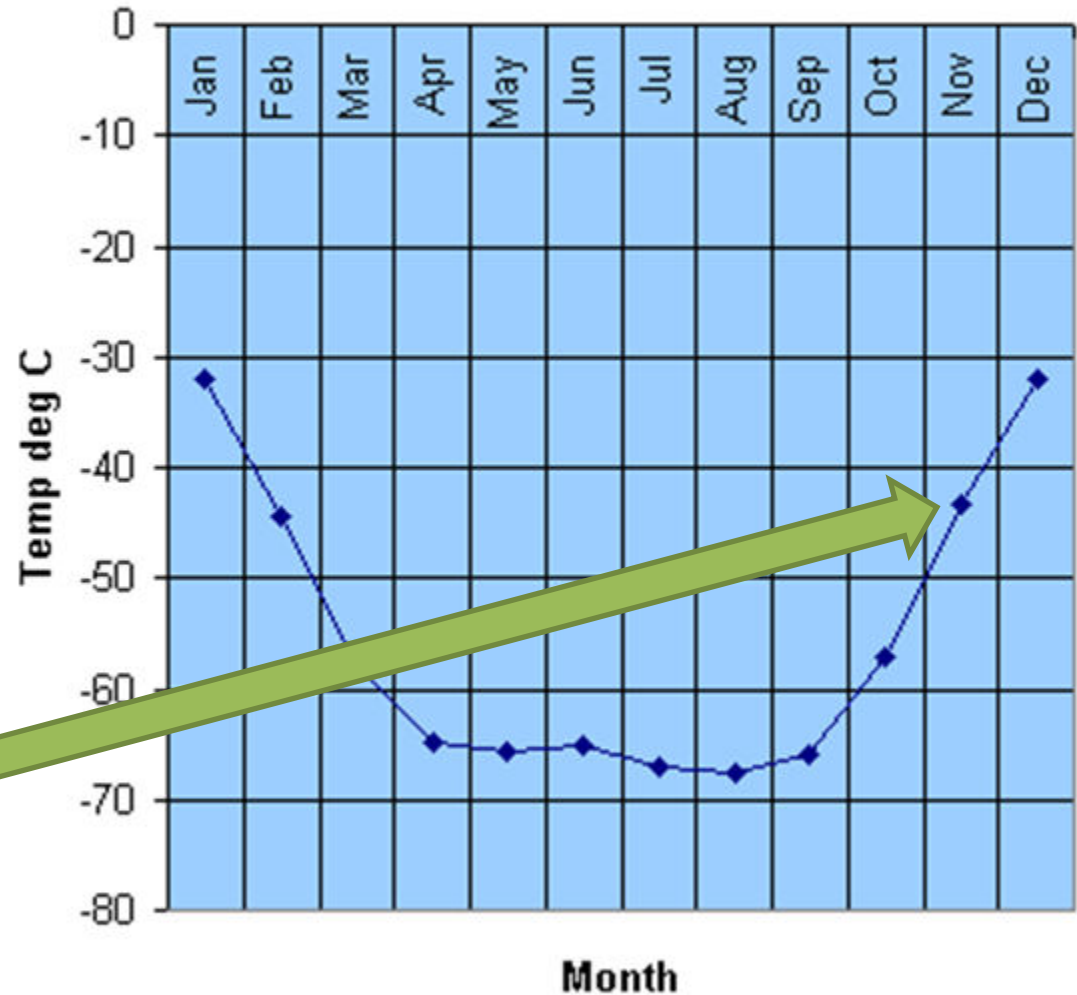
—◆— Average daily temperature °C

# ANSWERS

## November

The weather is superb. Just imagine being here, sitting on the veranda, sun tan lotion and sunglasses on, watching seal pups playing together - how lucky are we!

Vostok, Annual Temperature



—◆— Average daily temperature °C

# UK vs ANTARCTICA

How do the climate and seasons of the UK compare with Antarctica? Look at the UK climate data sheet, discuss with a partner and draw some conclusions.





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