

# POLAR QUEST



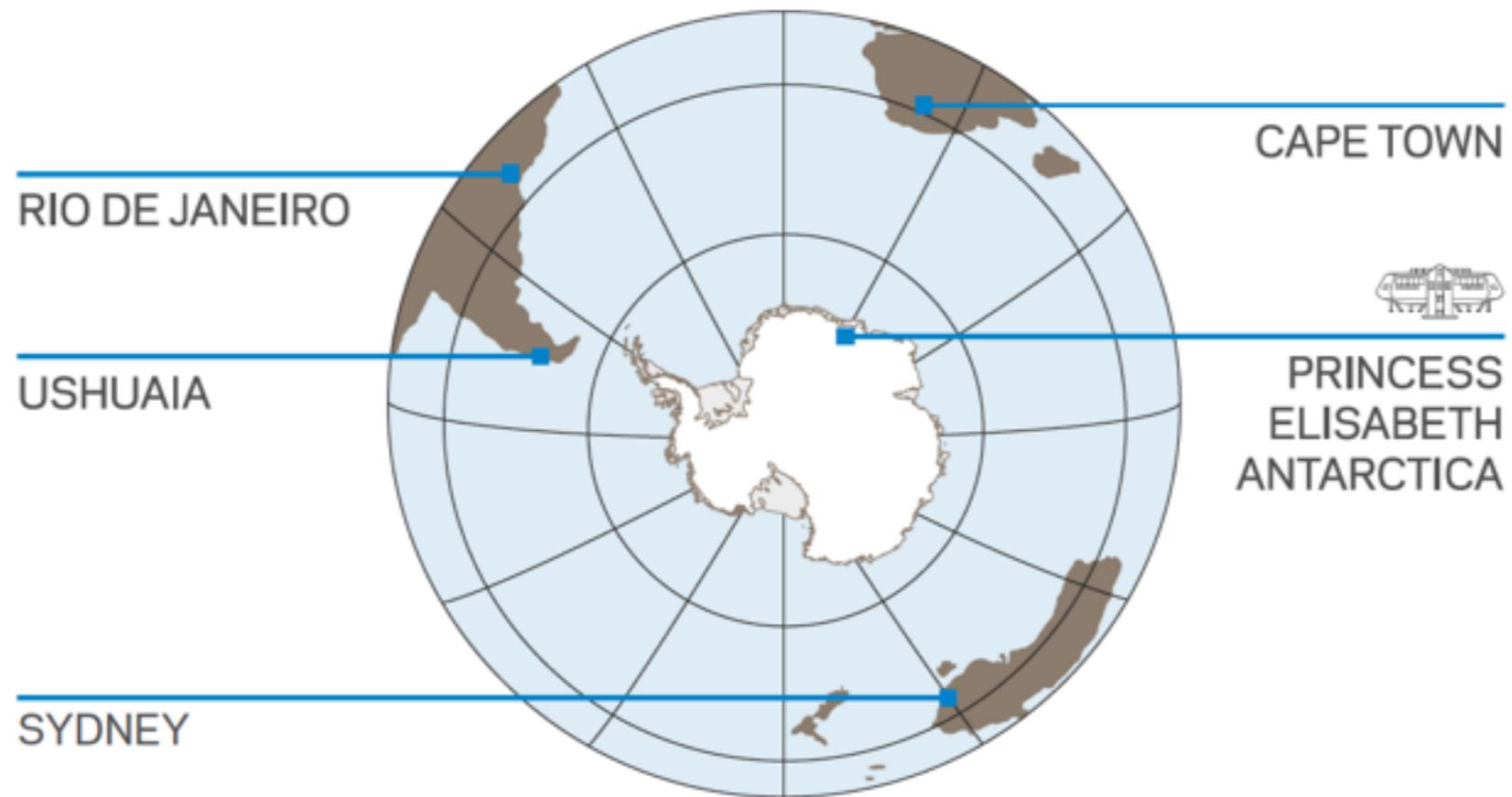
2013-2015

ANTARCTIC GEOGRAPHY

START



HOW BIG IS ANTARCTICA (IN MILLIONS OF KM<sup>2</sup>) ?



1.4 MILLION

4 MILLION

14 MILLION

9 MILLION

**Incorrect !**

**TRY AGAIN**

# Correct!

The area of Antarctica, including ice shelves and islands, is approximately **14 million km<sup>2</sup>**. This is equivalent to 1.4 times the area of the United States.

NEXT



WHAT IS THE NAME OF THE ROCK RIDGE ON WHICH THE PRINCESS ELISABETH STATION IS BUILT ?

- ▶ UTSTEINEN
- ▶ ROMNEUS
- ▶ NANSEN
- ▶ VESTAUGHEN



# Incorrect!

TRY AGAIN

# Correct!

The [Princess Elisabeth Station](#) is anchored with short legs on the rocky Utsteinen ridge. This allows the snow to pass under the main building without accumulating. The main station building stays free of snow all year round.

NEXT



WHAT IS THE ALTITUDE AT THE PRINCESS ELISABETH STATION ?



323 m

694 m

1382 m

4810 m

# Incorrect!

TRY AGAIN

# Correct!

The Princess Elisabeth Station is located at an altitude of **1382 m**.

Mount Vinson is the highest peak in Antarctica with an altitude of 4892 m.

NEXT



WHICH OF THESE TYPES OF ICE IS NOT FORMED BY THE ACCUMULATION AND TRANSFORMATION OF SNOW LAYERS ?



SEA ICE



ICEBERG



GLACIER



ICE SHELF

**Incorrect!**

**TRY AGAIN**

# Correct!

**Sea ice** is formed from frozen sea water.

Glaciers and ice sheets are terrestrial ice formed by the compression of successive layers of snow. Glaciers and ice sheets can flow over the ocean to form ice shelves that gradually break off to produce icebergs.



NEXT



IMAGINE YOU ARE IN ANTARCTICA AT THE END OF NOVEMBER. YOU ARE GETTING READY TO GO OUT ON AN EXPEDITION NEAR THE PRINCESS ELISABETH STATION. WHAT IS THE TEMPERATURE OUTSIDE ?



0 °C

-15 °C

-45 °C

-60 °C

# Incorrect!

TRY AGAIN

# Correct!

The air temperature around the Princess Elisabeth station varies throughout the year from **-50 °C to -5 °C**.

In November, it's the austral summer. In late November 2014, Roger Radoux, the winning teacher of the [Polar Quest 2](#) competition who visited the station, said that it was about **-12 °C to -15 °C**.

NEXT



WHICH OF THESE ANIMALS DOES NOT LIVE IN ANTARCTICA ?



EMPEROR PENGUIN



WEDDELL SEAL



SNOW PETREL



POLAR BEAR

**Incorrect !**

**TRY AGAIN**

# Correct!

**Polar bears live in the Arctic**, where they hunt seals on the ice during the winter. They are excellent swimmers, but none has managed to swim all the way to the coast of Antarctica... at least not yet!

NEXT



WHICH ANIMALS CAN WE OBSERVE WITHIN 1 KM OF THE PRINCESS ELISABETH STATION ?



EMPEROR PENGUIN



SNOW PETREL



WEDDELL SEAL

ALL THREE

# Incorrect!

TRY AGAIN

# Correct!

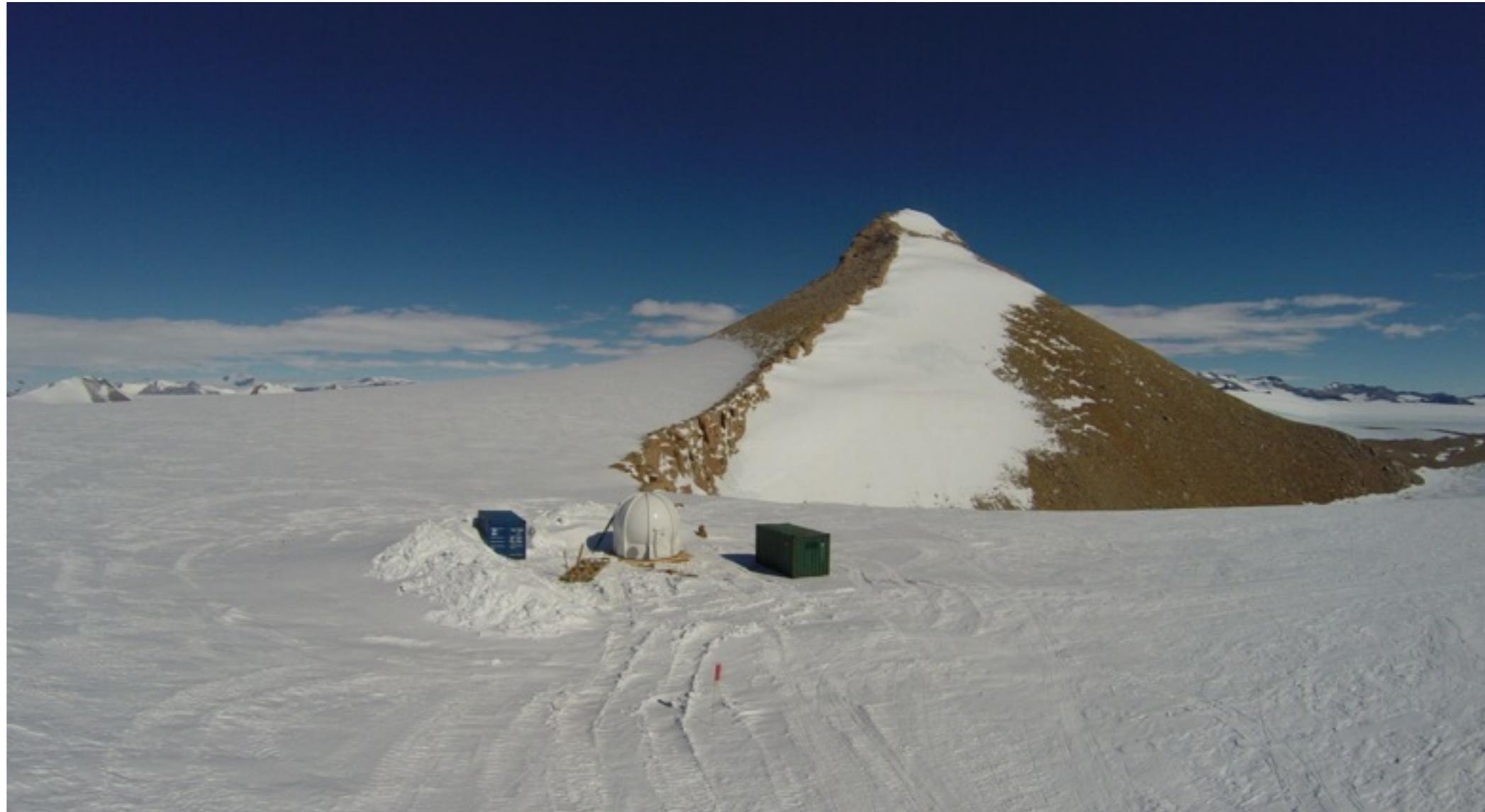
Near the station, there are **snow petrels** and skuas. Snow petrels feed in the ocean and nest on the mainland.

Penguins and seals live at the coast, 220 km from the Princess Elisabeth Station.

NEXT



WHICH TERMS DESCRIBES A SMALL MOUNTAIN TOP PROJECTING FROM A GLACIER OR ICE SHEET ?



ICE SHEET

POLYNYA

ICE SHELF

NUNATAK

# Incorrect!

TRY AGAIN

# Correct!

**Nunatak** is a rocky outcrop sticking out of the ice cap.

What do the other words mean ?

## **Ice sheet**

Vast expanses of ice in Greenland and Antarctica

## **Polynya**

An area of open water surrounded by sea ice

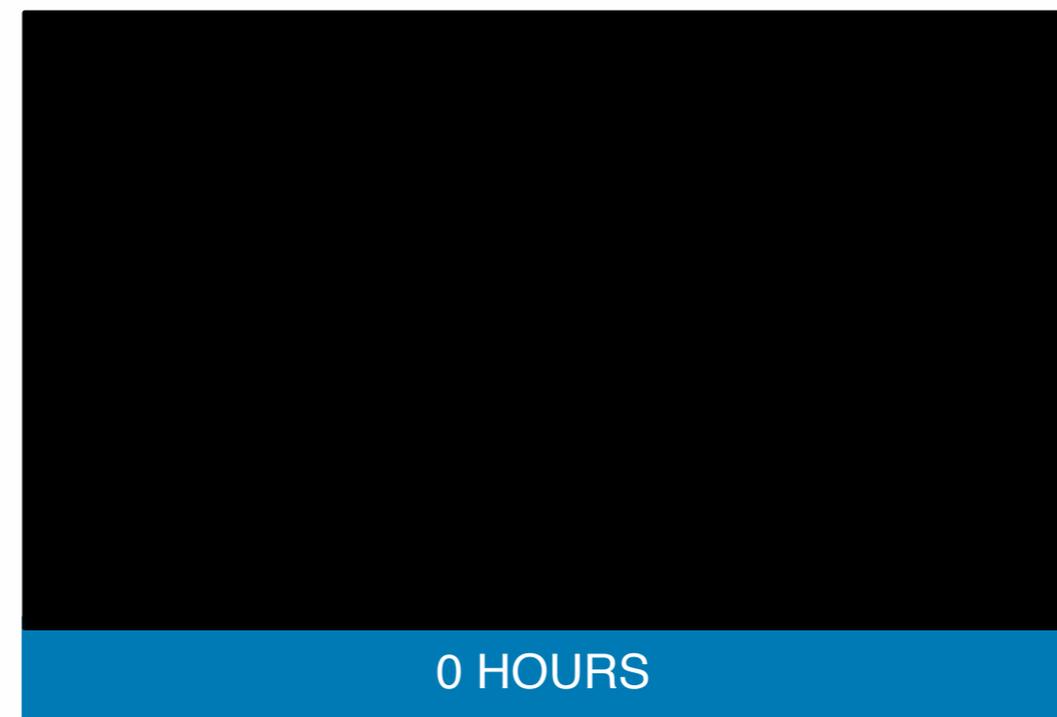
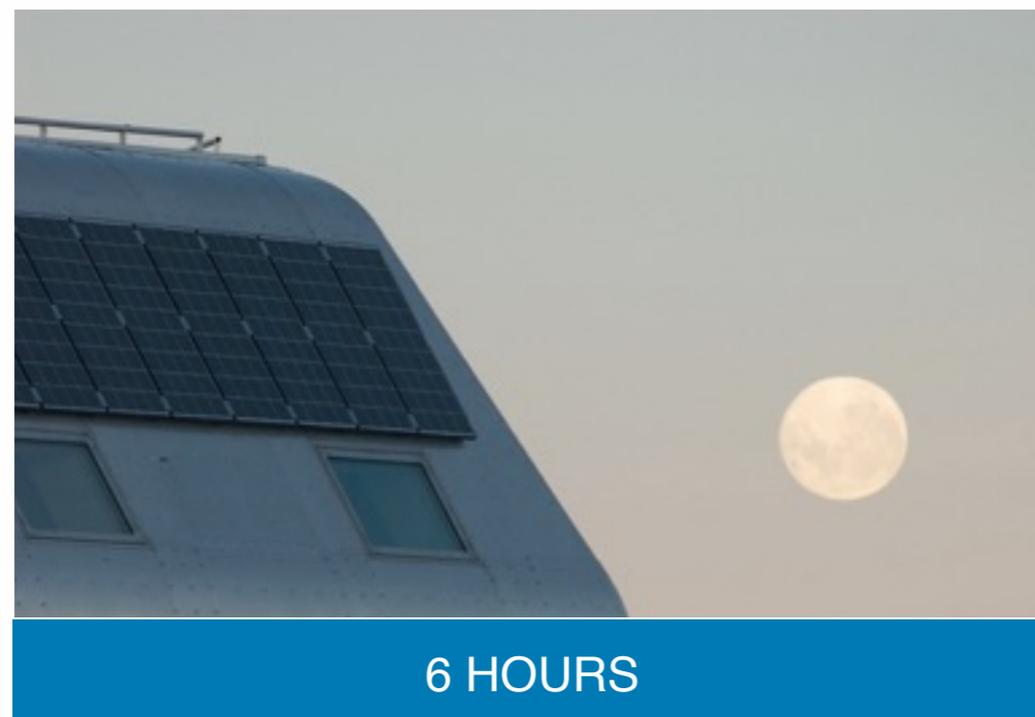
## **Ice Shelf**

Extension of ice sheet or glacier which is floating on the sea

NEXT



IN DECEMBER AT THE PRINCESS ELISABETH STATION, HOW MANY HOURS OF DAYLIGHT ARE THERE IN A DAY ?



**Incorrect !**

**TRY AGAIN**

# Correct!

**In December, it's the austral summer. There is 24/24 hour daylight.**

During the austral winter (June), there is 24/24 hour darkness.

[NEXT](#)



EACH YEAR, ANTARCTICA DAY MARKS THE SIGNING OF THE ANTARCTIC TREATY IN 1959. ON THIS OCCASION, MANY STUDENTS FROM ALL OVER THE WORLD DRAW FLAGS THAT ARE DISPLAYED IN ANTARCTICA. ON WHICH DATE IS ANTARCTICA DAY ?



1 JULY

15 OCTOBER

1 DECEMBER

15 APRIL

**Incorrect !**

**TRY AGAIN**

# Correct!

**Antarctica Day** celebrates the signing of the **Antarctic Treaty** on the **1<sup>st</sup> December 1959**.

The Treaty states that "it is in the interest of all mankind that Antarctica shall continue for ever to be used exclusively for peaceful purposes and shall not become the scene or object of international discord".

Antarctica is a continent for peace and science.

NEXT

# Well Done !

You can now do this quiz again or visit [www.educapoles.org](http://www.educapoles.org) for other quizzes, teaching files and educational projects for the polar regions, polar science, climate change and sustainable energy.

START AGAIN

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