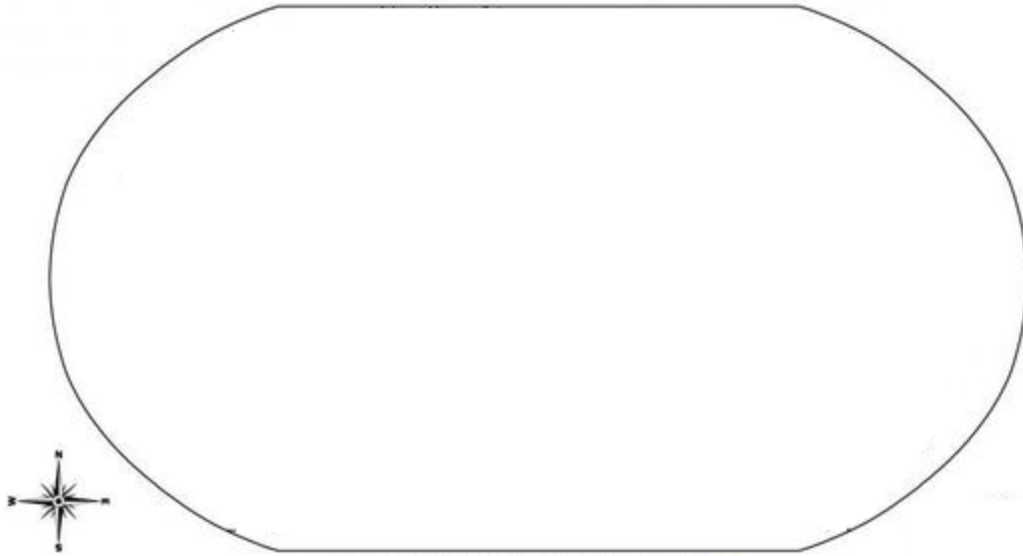


Sketch a map of the World and Label the Seven Continents



Write two facts you know about Antarctica

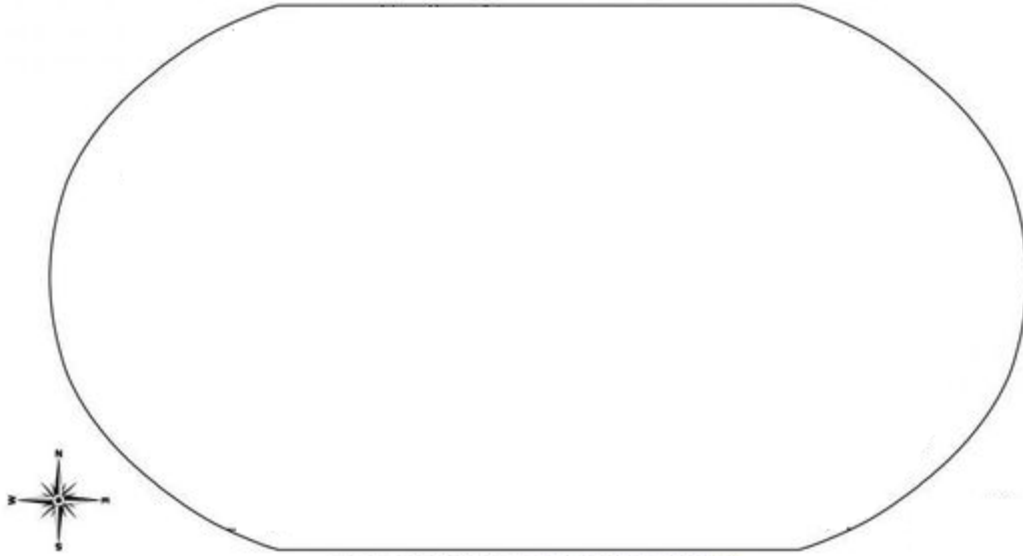
Sketch an outline of the Antarctica Continent

Write two questions you have about Antarctica

Grab a laptop and read the encyclopedia entry on Antarctica on the website <http://www.nationalgeographic.org/encyclopedia/antarctica/>

Annotate on the back of this worksheet any information that you believe influences the climate of Antarctica

Sketch a map of the World and Label the Seven Continents

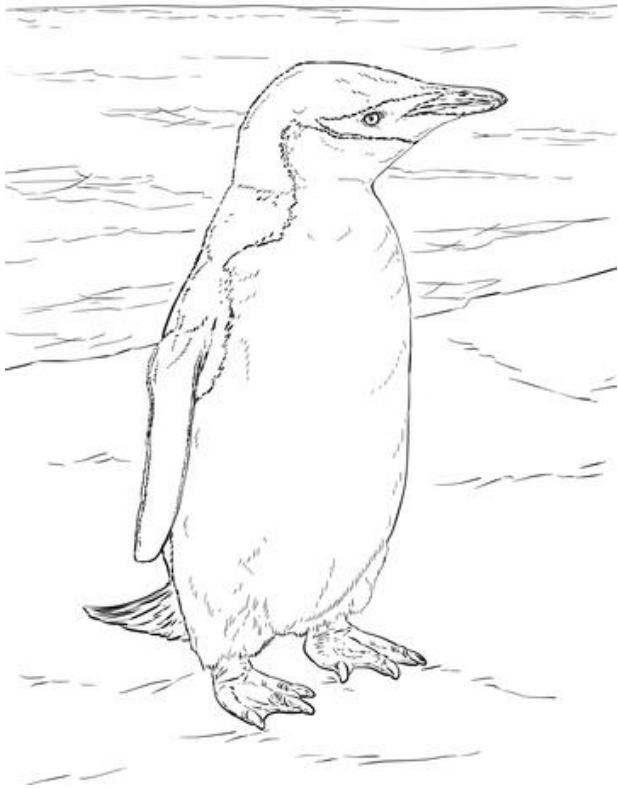


Write two facts you learned about Antarctica

Sketch an outline of the Antarctica Continent

Write two questions you still have about Antarctica

On the back write one thing you liked about this project and one thing you did not like about this project ☺



Common Name: Chinstrap Penguin

Scientific Name: \_\_\_\_\_

Height: \_\_\_\_\_

Weight: \_\_\_\_\_

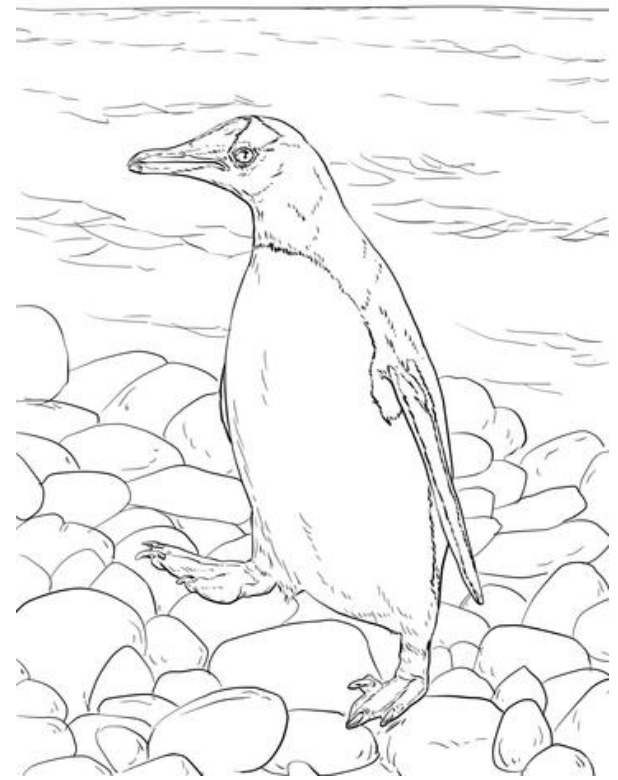
Prey: \_\_\_\_\_

Predator: \_\_\_\_\_

Conservation Status: \_\_\_\_\_

Interesting Fact: \_\_\_\_\_

World Distribution



Common Name: Gentoo Penguin

Scientific Name: \_\_\_\_\_

Height: \_\_\_\_\_

Weight: \_\_\_\_\_

Prey: \_\_\_\_\_

Predator: \_\_\_\_\_

Conservation Status: \_\_\_\_\_

Interesting Fact: \_\_\_\_\_

World Distribution



Common Name: Rockhopper Penguin

Scientific Name: \_\_\_\_\_

Height: \_\_\_\_\_

Weight: \_\_\_\_\_

Prey: \_\_\_\_\_

Predator: \_\_\_\_\_

Conservation Status: \_\_\_\_\_

Interesting Fact: \_\_\_\_\_

\_\_\_\_\_

World Distribution



Common Name: Adélie Penguin

Scientific Name: \_\_\_\_\_

Height: \_\_\_\_\_

Weight: \_\_\_\_\_

Prey: \_\_\_\_\_

Predator: \_\_\_\_\_

Conservation Status: \_\_\_\_\_

Interesting Fact: \_\_\_\_\_

\_\_\_\_\_

World Distribution



Common Name: King Penguin

Scientific Name: \_\_\_\_\_

Height: \_\_\_\_\_

Weight: \_\_\_\_\_

Prey: \_\_\_\_\_

Predator: \_\_\_\_\_

Conservation Status: \_\_\_\_\_

Interesting Fact: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

World Distribution



Name: \_\_\_\_\_

### Penguin Watch Assignment

Penguin Watch is a citizen science project being conducted by Dr. Tom Hart and his staff. They are monitoring the effects of climate change on penguin populations. In this assignment you will be joining Dr. Tom Hart's actual research team. You will analyze pictures and submit data directly to the research team, becoming a citizen scientist.

Your assignment is to collect data from 58 pictures, recording it on your worksheet. Information to record includes Date, time, temperature, Number of individuals: Adult, Chicks, Eggs, and Other. If there are other species in the picture to the best of your ability identify that species, ie. Human, bird. If the weather is too bad in the picture just skip that picture. If there are no penguins in the picture DO NOT skip it, this data is important as well.

Create a hypothesis about weather conditions and number of penguins present, ie. If it is snowing then there will be no penguins present. Think about the type of data your collecting, date (time of year), time, and temperature.

At the end of your data collection use your collected data to support/ not support your hypothesis.

Hypothesis: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Conclusion: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What is one thing you found interesting about this scientific investigation?

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What is one thing you found difficult about the type of data collection?

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What is one benefit of this type of data collection?

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Do you think anyone should be allowed to be a citizen scientist? Why or Why not?

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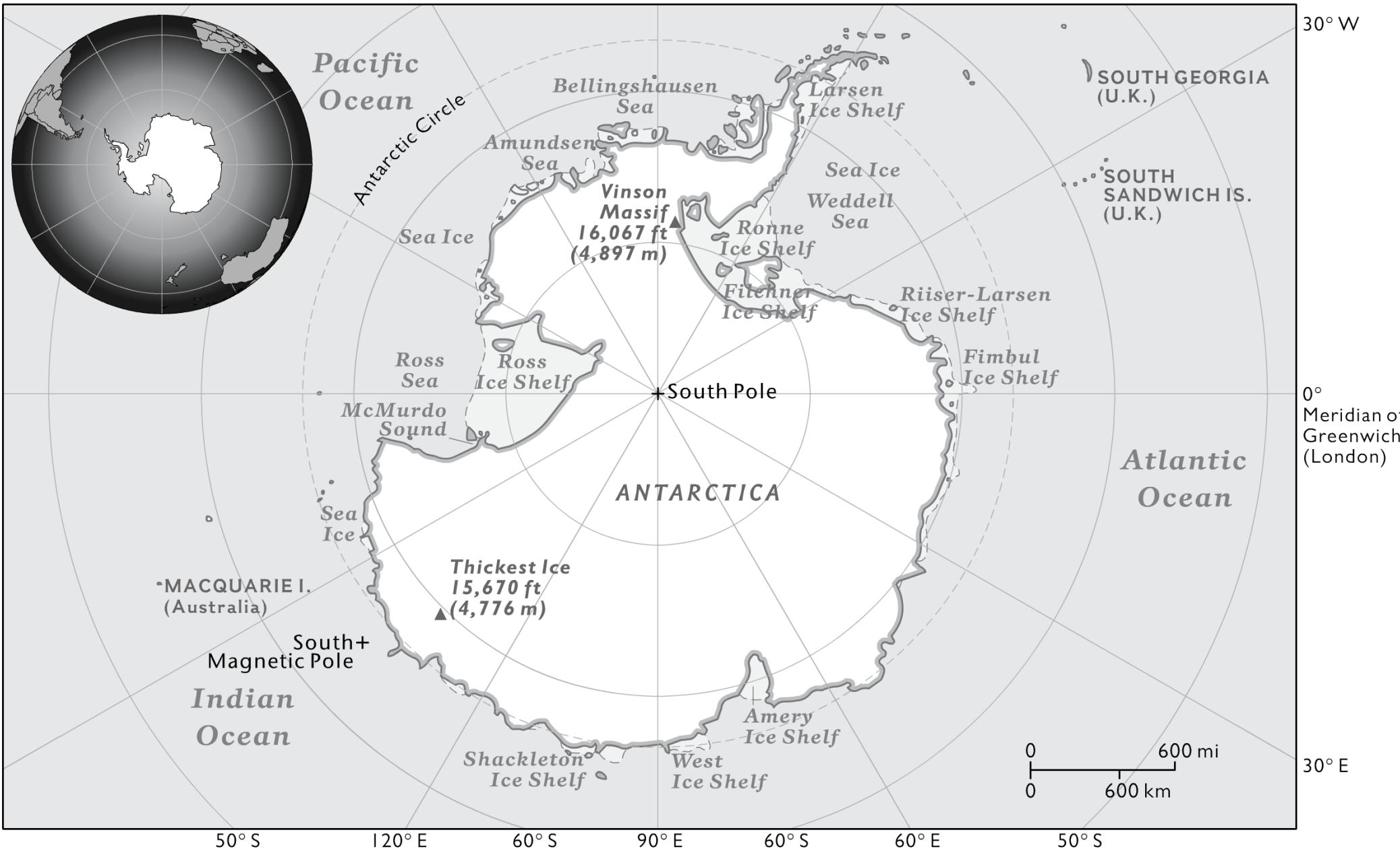
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# ANTARCTICA

<b>Station name</b>	<b>Latitude/longitude</b>
Amundsen-Scott South Pole (USA)	90°S
Byrd (USA) note – station closed in 2005	80°01'S, 119°32'W
Davis (Australia)	68°35'S, 77°58'E
McMurdo (USA)	77°51'S, 166°40'E
Rothera (UK)	67°34'S, 68°08'W
Signy (UK)	60°43'S, 45°36'W
Vostok (Russia)	78°27'S, 106°51'E

**Altitude** above  
mean sea level

2835m

1515m

18m

24m

32m

6m

3490m

**MONTHLY AVERAGES FOR SELECTED ANTARCTIC STATIONS:  
Amundsen-Scott, Byrd, Davis, Mawson, McMurdo, Rothera, Signy, Vostok**

**Amundsen-Scott (South Pole)**

(32 years of data, source: [www.antarcticconnection.com](http://www.antarcticconnection.com) )

Month	Mean Temp. (degC)	Precipitation (mm)	Mean Windspeed (mph)
Jan	-26	0	1.1
Feb	-38	0	0.9
Mar	-52	0	1.4
Apr	-56	0	4.6
May	-56	2	5.4
Jun	-57	0	4.6
Jul	-58	0	5
Aug	-58	0	5
Sep	-58	2	5.7
Oct	-50	0	1.7
Nov	-37	0	1.3
Dec	-26	0	1.1

**Byrd**

(16 years of data, source: v

Month	Mean Temp. (degC)
Jan	-14
Feb	-18
Mar	-26
Apr	-28
May	-31
Jun	-33
Jul	-34
Aug	-35
Sep	-35
Oct	-29
Nov	-20
Dec	-15

**McMurdo**

(26 years of data, source: [www.antarcticconnection.com](http://www.antarcticconnection.com))

Month	Mean Temp. (degC)	Precipitation (mm)	Mean Windspeed (mph)
Jan	-2	15	13
Feb	-8	25	14
Mar	-17	12	17
Apr	-20	15	16
May	-22	20	16
Jun	-22	22	16
Jul	-25	15	16
Aug	-26	12	16
Sep	-23	10	16
Oct	-18	17	14
Nov	-9	10	12
Dec	-3	12	12

**Rothera**

(33 years of data, source: v

Month	Mean Temp. (degC)
Jan	1.4
Feb	0.7
Mar	-1.2
Apr	-3.1
May	-5.1
Jun	-8.5
Jul	-10.9
Aug	-10.5
Sep	-8.5
Oct	-5.8
Nov	-2.4
Dec	0.3

www.antarcticconnection.com)

<b>Precipitation (mm)</b>	<b>Mean Windspeed (mph)</b>
5	16
9	18
9	20
14	23
11	24
13	23
11	21
10	24
11	23
8	23
5	20
7	16

### Davis

(52 years of data, sources: www.nerc-bas.ac.uk and Austra

<b>Month</b>	<b>Mean Temp. (degC)</b>	<b>Precipitation (mm)</b>	<b>Mean Windspe (mph)</b>
Jan	0.8	1.7	14
Feb	-2.4	3.6	13.8
Mar	-8	9.3	12.5
Apr	-13	9.9	11.2
May	-15.5	10.2	10.7
Jun	-15.5	8.5	12
Jul	-17.3	7.2	12.2
Aug	-17.3	6.7	12
Sep	-16.4	4.6	11
Oct	-12	4.7	12.5
Nov	-4.8	2.5	16.1
Dec	0.1	1.9	15.4

www.nerc-bas.ac.uk)

<b>Precipitation (mm)</b>	<b>Mean Windspeed (mph)</b>
33	11.2
46	12
70	7.4
66	13.8
100	13.8
64	12.8
43	13.6
50	15.7
81	15.9
76	15.4
48	14.6
31	12

### Signy

(Source: BAS Antarctica Schools Pack)

<b>Month</b>	<b>Mean Temp. (degC)</b>	<b>Precipitation (mm)</b>	<b>Windspeed (mph)</b>
Jan	1.1	103	7.8
Feb	1.2	115	8.7
Mar	0.2	135	9.5
Apr	-2.4	147	8.7
May	-5.6	109	8.4
Jun	-8.7	89	8.1
Jul	-10.2	71	8.2
Aug	-8.3	72	9
Sep	-5.2	87	10
Oct	-2.8	98	9.9
Nov	-1.1	78	9.5
Dec	0	94	7.5

