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2017-18 Antarctic Travel Project data set

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2017-2018 Antarctic Travel Project, Bucknell University
Compiled data set

Authors: Clare A. Sammells, Claudia Roedel, Duane Griffin, and Alex Busato

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Method: For the 2017-2018 season, we distributed paper surveys to travelers on expedition ships leaving from Ushuaia, Argentina for the Antarctic peninsula. We used paper instead of distributing internet links, as we had done during the 2015-2016 season, in the hope of improving response rates; internet access on Antarctic expedition ships is often inconsistent and frustratingly slow, making an internet survey less ideal. In order to fit the paper survey on a single printed page, we chose a subset of the questions used on the 2015-2016 internet survey. That instrument is included here. We received 362 responses, which is the n throughout the dataset. “Unanswered” indicates that nothing was written on the survey instrument for that question.

The Ushuaia Tourism Office, INFUETUR, graciously assisted us in distributing surveys to the expedition guides. Guides then distributed the surveys to their passengers onboard, collected completed surveys, and returned them to the INFUETUR office. These were then mailed to the authors to be analyzed. Once the paper responses were received at Bucknell University, the data was entered into Qualtrics for analysis by Alex Busato. We offer our deep thanks to all those who assisted with this survey!

Responses were collected between December 2017 and February 2018, a timeframe that corresponds to the Antarctic tourism season.

Some of the survey questions were taken from other, larger surveys in the hopes of producing comparable data. Those surveys, and their corresponding questions, are indicated by the relevant questions.

These research protocols were reviewed and approved by the Bucknell University Institutional Review Board (IRB #1516-053, 1516-116 and 1718-057).

Welcome to Bucknell University's Antarctic Travel Experience Survey!

Survey results will be separated from identifying information and aggregated anonymously. All contact information will be treated as strictly confidential. More information at www.projects.bucknell.edu/antarctour

Age: _____

Gender: _____

Country of Primary Residence: _____

Citizenship(s): _____

Highest Level of Education: High School or equivalent 2 or 4 year College Degree

Graduate education/degree (please specify) _____ Other: _____

Current Employment Status: Employed or Self-employed Not employed Retired

Disabled/unable to work Other: _____ Current/Most Recent Job Title: _____

Tour Operator: _____ Are you travelling with family/friends? Who? _____

On a scale of 1 to 4 (1 = "not at all;" 4 = "completely agree"), how strongly do you consider yourself:

_____ a world citizen.

_____ part of a regional organization.

_____ part of your local community.

(the EU, ASEAN, PIF, CIS, etc.)

_____ part of your nation.

_____ an autonomous individual.

On a scale of 1 to 10 (1 = "fully disagree;" 10 = "fully agree"), how strongly do you agree with the following?

_____ Science and technology are making our lives healthier, easier, and more comfortable.

_____ Science and technology have created more opportunities for the next generation.

_____ We depend too much on science and not enough on faith.

_____ One of the bad effects of science is that it breaks down people's ideas of right and wrong.

_____ It is not important for me to know about science in my daily life.

Have you participated in any citizen-scientist projects? Which one(s)? _____

Which of the following would you support in Antarctica? (check all that apply)

Small scale ship tourism (<300 per ship, short excursions ashore)

Building airstrips, hotels, and tourism infrastructure

Medium scale ship tourism (300-500 per ship, short excursions ashore)

Building new stations for scientific research

Large scale ship tourism (500+ per ship, no excursions ashore)

Mining/oil exploration

Tourist flights into the interior of Antarctica

Fishing

Strictly limiting or forbidding tourism

Whaling

Educational trips for students

Designation as a wilderness preserve with limited infrastructure for human activities

Do you think climate change/global warming is happening? Yes No Not sure

How worried are you about the impacts of climate change/global warming?

Extremely or very worried

Somewhat worried

Not very worried or not worried at all

In your opinion, is the primary cause of climate change/global warming:

Human activity

Both, but mostly human

Natural activity

Both, but mostly natural

Follow-up interview: If you are willing to be interviewed after you return home, please provide your contact information (name, email, phone) on the back of this form. If you wish to receive an electronic copy of publications resulting from this research, please indicate your email address. Also, please feel free to offer any additional thoughts, comments, or reflections about your Antarctic travel experience so far.

Q1. Age [Note: question was open-ended; authors compiled into these categories.]

	%	Count
18-24	0.55%	2
25-34	5.80%	21
35-44	5.80%	21
45-54	4.70%	17
55-64	19.34%	70
65-74	48.07%	174
75-84	13.26%	48
85 or over	5.52%	2
<i>Unanswered</i>	1.93%	7

Q2. Gender

	%	Count
Male	35.36%	128
Female	60.50%	219
Prefer not to say	0%	0
<i>Unanswered</i>	4.14%	15

Q3. Country of primary residence [Note: Question was open-ended.]

	%	Count
United States of America	75.14%	272
United Kingdom	5.80%	21
Australia	5.25%	19
Switzerland	1.93%	7
Canada	1.93%	7
New Zealand	1.38%	5
Germany	1.38%	5
France	0.83%	3
Austria	0.83%	3
United Arab Emirates	0.28%	1
Netherlands	0.28%	1
China	0.28%	1
<i>Unanswered</i>	4.70%	17

Q4. Citizenship(s) [Note: Question was open-ended. 11 were dual-citizens; that data is not presented.]

	%	Count
United States of America	77.90%	282
United Kingdom	6.35%	23
Australia	4.70%	17
Switzerland	1.66%	6
Canada	1.66%	6
New Zealand	1.66%	6
Germany	1.38%	5
France	0.83%	3
Austria	0.83%	3
Denmark	0.83%	3
Netherlands	0.28%	1
China	0.28%	1
Italy	0.28%	1
Ireland	0.28%	1
South Africa	0.28%	1
<i>Unanswered</i>	0.83%	3

Q5. Highest level of education

	%	Count
High School Graduate or equivalent	7.18%	26
2- or 4-year College Degree	28.73%	104
Graduate education / degree. Please specify:	59.94%	217
Other	1.93%	7
<i>Unanswered</i>	2.21%	8

Q6. Current Employment status

	%	Count
Employed or self-employed	30.66%	111
Not employed	2.21%	8
Retired	60.77%	220
Unable to work	0%	0
Other	2.49%	9
<i>Unanswered</i>	3.87%	14

Q7. Current/most recent job title:

[Answers removed to maintain confidentiality.]

Q8. Tour Operator

[Answers removed to maintain confidentiality.]

Q10. On a scale of 1 to 4 (1 = “not at all;” 4 = “completely agree”), how strongly do you consider yourself:

	Strongly Agree	Agree	Disagree	Strongly Disagree	Unanswered
... a world citizen.	201 (55.52%)	82 (22.65%)	35 (9.67%)	20 (5.52%)	24 (6.63%)
... part of my local community.	195 (53.87%)	73 (20.17%)	54 (14.92%)	11 (3.04%)	29 (8.01%)
... part of my nation.	212 (58.56%)	75 (20.72%)	46 (12.71%)	4 (1.10%)	25 (6.91%)
... part of a regional organization (the EU, ASEAN, PIF, CIS, NAFTA, etc.)	24 (6.63%)	19 (5.25%)	52 (14.36%)	203 (56.08%)	64 (17.68%)
... an autonomous individual.	103 (28.18%)	47 (12.98%)	42 (11.60%)	104 (28.73%)	66 (18.23%)

Q11. On a scale of 1 to 10 (1 = “fully disagree;” 10 = “fully agree”), how strongly do you agree with the following? [Note: This question was taken from the [World Values Survey Wave 6 questions](#), V192-196.]

	Minimum	Maximum	Mean	Std Deviation	Variance	Count
Science and technology are making our lives healthier, easier, and more comfortable.	3.00	10.00	8.75	1.62	2.64	360
Science and technology have created more opportunities for the next generation.	1.00	10.00	8.65	1.81	3.27	352
We depend too much on science and not enough on faith.	0.00	10.00	3.20	2.80	7.84	346
One of the bad effects of science is that it breaks down people’s ideas of right and wrong.	0.00	10.00	2.35	2.29	5.26	346
It is not important for me to know about science in my daily life.	0.00	10.00	1.99	2.27	5.13	348

Q12. Have you participated in any citizen-scientist projects? Which one(s)?

	%	Count
Yes	11.60%	42
No	84.25%	305
<i>Unanswered</i>	4.14%	15

[Responses for Q12 are open-ended; typos corrected.]

Union Concerned Scientists

only in the classroom with those types of projects

Not yet, other than Testing water for IN state data base

depends on what you mean -I've conducted various research studies as well as participated over the years.

I educate students and teachers of the world in many aspects of science in my position of science consultant with McGraw Hill textbook publishing company.

Earthwatch Expedition

Grunion (CA Fish) survey data collection

Monarch Watch, Christmas Bird Counts

Texas A&M, US Fish & Game

Texas Watch- measuring DO, salinity, pH, etc: plant cord grass, National Fish and Game research, Wildlife conservation, NRCS Pres. SWCS board chairman

Rocky Mountain Pika Project

Pacific Whale, Turtle Patrol

Earthwatch

3 year study of Nectar Bats migration to Tucson, AZ & Gila Monster Patterns

Bird Count

4_Csiro's Climate education program

USAS Volunteer Mapping

Audubon sagebrush bird survey-WA state

twin studies

In Medical & Surgical Field

Butterfly Birdwatch WITH RSPB(UK)

Social Science Research in Vaicos Forms

On Expedition Seawater Quality

23 and me

Frog Census

SETI

(LT Affects of mobile phone use) Cosmos

23 and me

Go Green

BTO Garden bird count

Rain gauge collection/data recording

Whale Sharks with KAUST

Medical/AMD

Birding and Environment

Boulder County, Colorado nature studies

How Tourism effects the Hasliberg

Cornell's Bird Reporting

Forgot its name

RSPB Bird Surveys

Penguin Watch

World Wildlife

U.N. NGO prior to 2016 Paris Treaty, AVS Mathematical, Partnership for research in spatial modeling, The Arctic Circle (the Farem-NYC)

Recycle Trash, Support Sierra Club

Q13. Which of the following would you support in Antarctica? (Check all that apply)

[Note: This question was taken from Tin, T., Bastmeijer, K., O'Reilly, J., & Mayer, P. (2012). Public perception of the Antarctic wilderness: Surveys from an educated, environmentally knowledgeable European community. *Science and Stewardship to Protect and Sustain Wilderness Values, Rocky Mountain Research Station (Proceedings RMRS-P-64), Fort Collins, 2011*, 109–117. Page 112.]

	Percentage in favor n = 362	Number indicating support
Small scale ship tourism (<200 per ship, short excursions ashore)	92.82%	336
Medium scale ship tourism (200-500 per ship, short excursions ashore)	6.35%	23
Large scale ship tourism (500+ per ship, no excursions ashore)	6.91%	25
Tourist flights into the interior of Antarctica	12.43%	45
Strictly limiting or forbidding tourism	17.13%	62
Educational trips for students	67.13%	243
Building airstrips, hotels, and tourism infrastructure	1.38%	5
Building new stations for scientific research	50.55%	183
Mining/oil exploration	0.83%	3
Fishing	2.49%	9
Whaling	0%	0
Designation as a wilderness preserve with limited infrastructure for human activities	80.94%	293

Q14. Do you think climate change/global warming is happening?

	%	Count
Yes	89.50%	324
No	2.21%	8
Not Sure	7.18%	26
<i>Unanswered</i>	1.10%	4

Q15. How worried are you about the impacts of climate change/global warming?

	%	Count
Extremely or very worried	51.93%	188
Extremely or very worried	36.46%	132
Not very worried or not worried at all	10.22%	37
<i>Unanswered</i>	1.38%	5

Q16. In your opinion, is the primary cause of climate change/global warming:

	%	Count
Human activity	24.31%	88
Both, but mostly human	56.91%	206
Natural activity	2.49%	9
Both, but mostly natural	15.47%	56
<i>Unanswered</i>	0.83%	3