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*Supplement of*

## **Education and public engagement using an active research project: lessons and recipes from the SEA-SEIS North Atlantic Expedition's programme for Irish schools**

**Sergei Lebedev et al.**

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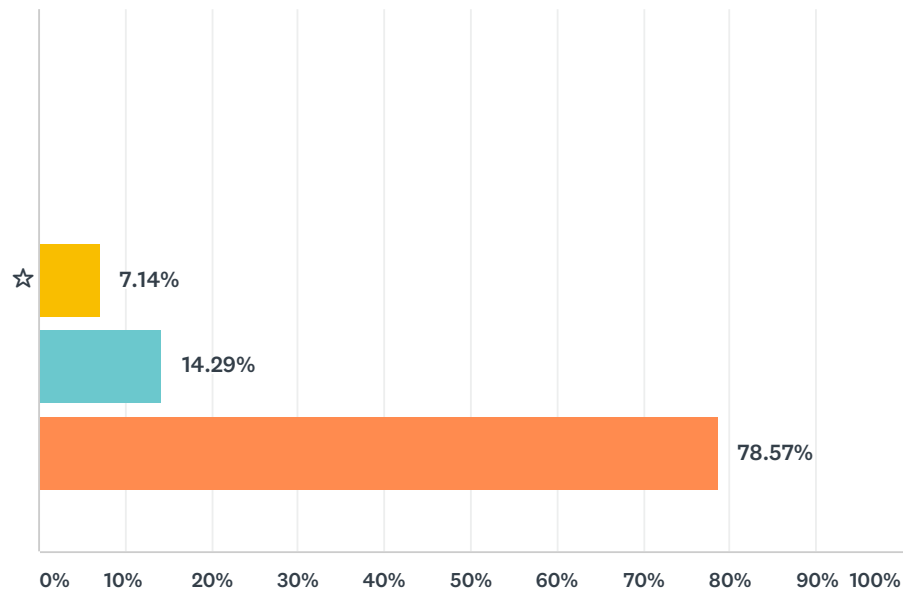
This file presents the data yielded by the evaluation survey of participating teachers in Ireland following our live, ship-to-classroom video link-ups. The survey was conducted via SurveyMonkey ([www.surveymonkey.com](http://www.surveymonkey.com)).

The survey included 10 questions. The first 5 were multiple-choice and the last 5 were free-form questions. In the following, we first give a graphical summary and basic statistics for the 5 multiple-choice questions. After that, we give complete responses by the respondents to all the questions, apart from the last one.

The survey was anonymous by default. The last, 10th question gave the participants an opportunity to give their name and information on their school and class, if they wished. Here, we omit the answers to this last question.

# Q1 How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

Answered: 14 Skipped: 0



■ 1  
 ■ 2  
 ■ 3  
 ■ 4  
 ■ 5

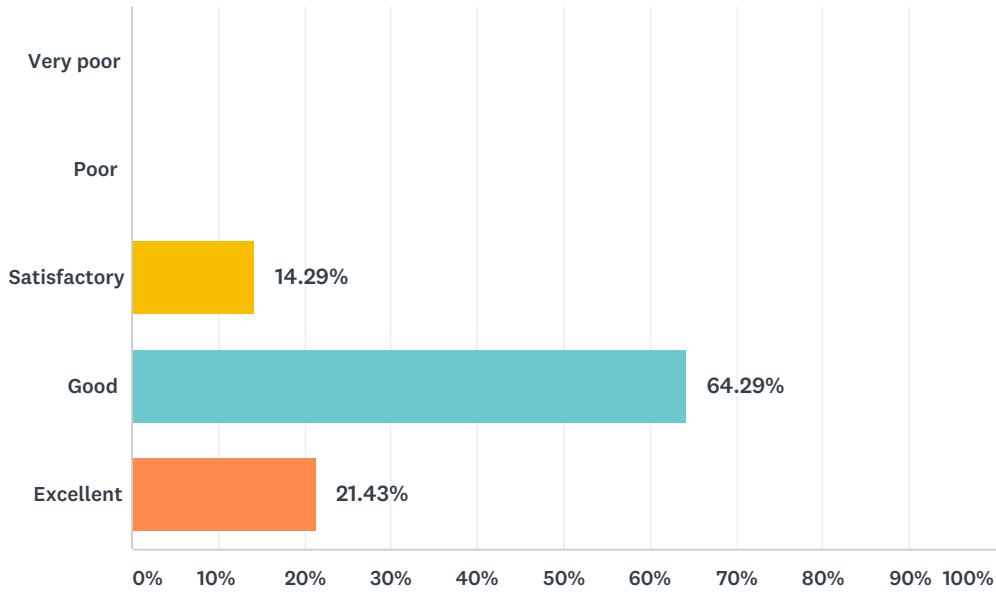
	1 (1)	2 (2)	3 (3)	4 (4)	5 (5)	TOTAL	WEIGHTED AVERAGE
☆	0.00% 0	0.00% 0	7.14% 1	14.29% 2	78.57% 11	14	4.71

## BASIC STATISTICS

Minimum	Maximum	Median	Mean	Standard Deviation
3.00	5.00	5.00	4.71	0.59

## Q2 How was the audio and video quality?

Answered: 14 Skipped: 0

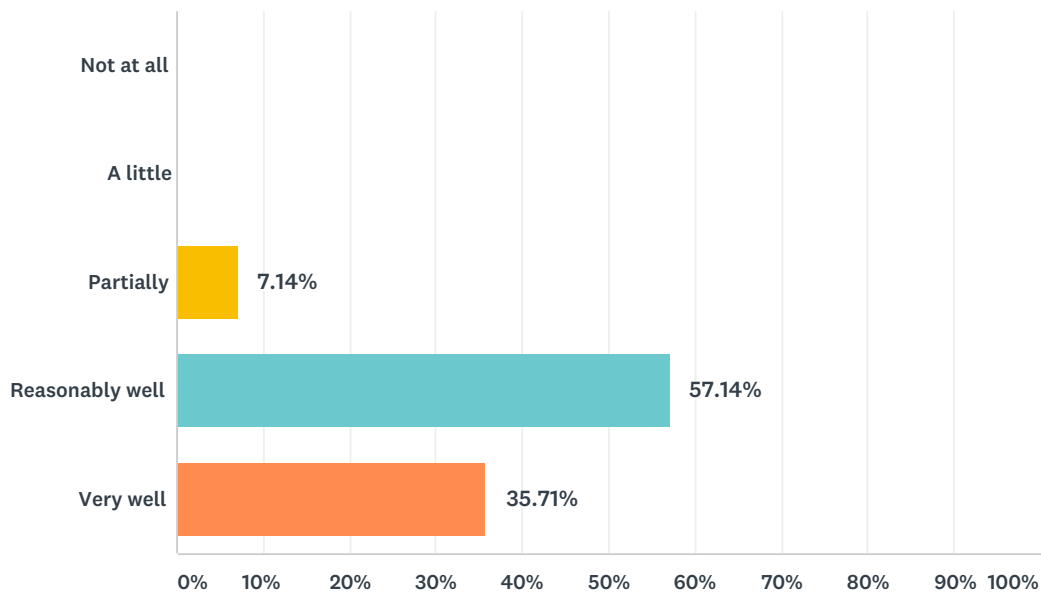


ANSWER CHOICES	RESPONSES	
Very poor (1)	0.00%	0
Poor (2)	0.00%	0
Satisfactory (3)	14.29%	2
Good (4)	64.29%	9
Excellent (5)	21.43%	3
<b>TOTAL</b>		<b>14</b>

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
3.00	5.00	4.00	4.07	0.59

### Q3 How well did the students understand why the scientists went on the expedition?

Answered: 14 Skipped: 0

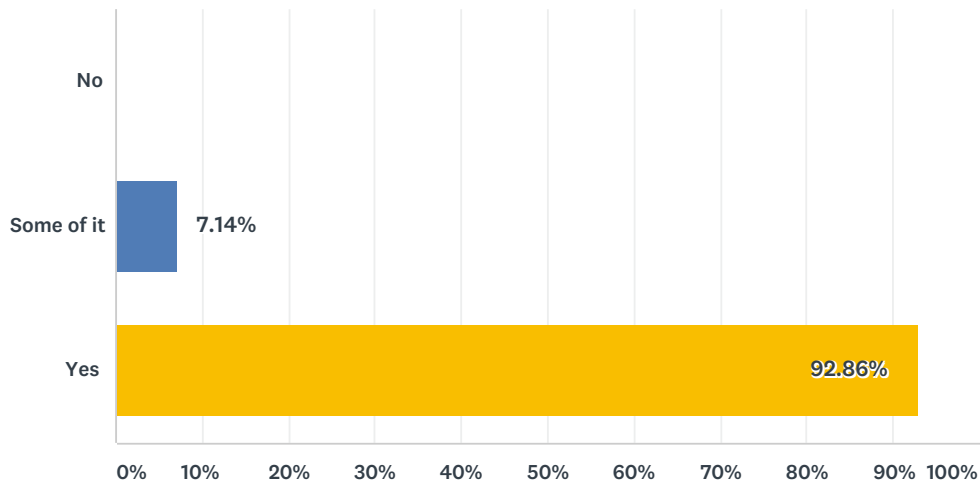


ANSWER CHOICES	RESPONSES
Not at all (1)	0.00% 0
A little (2)	0.00% 0
Partially (3)	7.14% 1
Reasonably well (4)	57.14% 8
Very well (5)	35.71% 5
<b>TOTAL</b>	<b>14</b>

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
3.00	5.00	4.00	4.29	0.59

## Q4 Was the information presented on the appropriate level for your audience?

Answered: 14 Skipped: 0

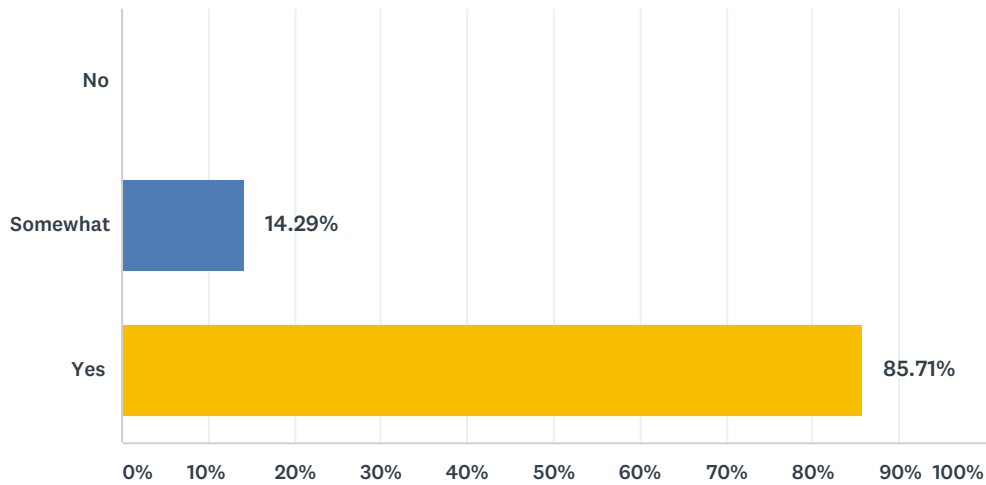


ANSWER CHOICES	RESPONSES	
No (1)	0.00%	0
Some of it (2)	7.14%	1
Yes (3)	92.86%	13
<b>TOTAL</b>		<b>14</b>

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
2.00	3.00	3.00	2.93	0.26

## Q5 Did the video link encourage the students' interest in science?

Answered: 14 Skipped: 0



ANSWER CHOICES	RESPONSES	
No (1)	0.00%	0
Somewhat (2)	14.29%	2
Yes (3)	85.71%	12
TOTAL		14

BASIC STATISTICS				
Minimum	Maximum	Median	Mean	Standard Deviation
2.00	3.00	3.00	2.86	0.35

#1

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Wednesday, September 26, 2018 9:29:06 PM  
**Last Modified:** Wednesday, September 26, 2018 9:33:57 PM  
**Time Spent:** 0 0 : 0 4 : 5 0  
**IP Address:**

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Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ **5**

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**Q2** How was the audio and video quality? **Excellent**

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**Q3** How well did the students understand why the scientists went on the expedition? **Very well**

---

**Q4** Has the information presented on the appropriate level for your audience? **Yes**

---

**Q5** Did the video link encourage the students' interest in science? **Yes**

---

**Q6** Did the students enjoy the video link? Did it spark their imagination?

They were telling their other teachers about it afterwards so it was definitely enjoyed. They were asking could they keep an eye on how you were getting on in class !

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**Q7** What did you like most about your video link?

The crew were very good with the students and obviously loved their jobs which came across very well

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**Q8** Approximately how many people were in attendance at your event?

16 plus teacher

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**Q9** Do you have any general comments or suggestions for our video links?

Keep up the good work !!

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## #2

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Wednesday, September 26, 2018 9:37:37 PM  
**Last Modified:** Wednesday, September 26, 2018 9:41:19 PM  
**Time Spent:** 0 0 : 0 3 : 4 2  
**IP Address:**

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Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ 5

**Q2** How was the audio and video quality? **Good****Q3** How well did the students understand why the scientists went on the expedition? **Reasonably well****Q4** Has the information presented on the appropriate level for your audience? **Yes****Q5** Did the video link encourage the students' interest in science? **Yes****Q6** Did the students enjoy the video link? Did it spark their imagination?

They enjoyed it and continue to talk about it. Some wants to participate to the competition!

**Q7** What did you like most about your video link?

the questions with the team!

**Q8** Approximately how many people were in attendance at your event?

30

**Q9** Do you have any general comments or suggestions for our video links?

no, it was nice

## #3

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Wednesday, September 26, 2018 9:47:50 PM  
**Last Modified:** Wednesday, September 26, 2018 9:50:47 PM  
**Time Spent:** 0 0 : 0 2 : 5 6  
**IP Address:**

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Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ 5

**Q2** How was the audio and video quality? **Excellent****Q3** How well did the students understand why the scientists went on the expedition? **Very well****Q4** Has the information presented on the appropriate level for your audience? **Yes****Q5** Did the video link encourage the students' interest in science? **Yes****Q6** Did the students enjoy the video link? Did it spark their imagination?

Yes, they loved it. They enjoyed seeing scientists from different strands and backgrounds working on the same project.

**Q7** What did you like most about your video link?

Great atmosphere from scientists, very friendly and engaging towards students.

**Q8** Approximately how many people were in attendance at your event?

17

**Q9** Do you have any general comments or suggestions for our video links?

Excellent idea. Really sparked and interest in the students

## #4

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Wednesday, September 26, 2018 9:44:05 PM  
**Last Modified:** Wednesday, September 26, 2018 9:51:55 PM  
**Time Spent:** 0 0 : 0 7 : 4 9  
**IP Address:**

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Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ 4

**Q2** How was the audio and video quality? **Satisfactory****Q3** How well did the students understand why the scientists went on the expedition? **Reasonably well****Q4** Has the information presented on the appropriate level for your audience? **Yes****Q5** Did the video link encourage the students' interest in science? **Yes****Q6** Did the students enjoy the video link? Did it spark their imagination?

Yes they really enjoyed it and other classes were asking them all about it - think they felt very privileged that it was just them getting this special lesson

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**Q7** What did you like most about your video link?

The very friendly nature - smiling faces of all the scientists who spoke to and answered the students questions - this allowed usually very shy students to come forward to the camera.

---

**Q8** Approximately how many people were in attendance at your event?

28

**Q9** Do you have any general comments or suggestions for our video links?

The audio was difficult to hear for the pre recorded parts of scientists explaining their roles but got much better for questions and answers inside

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## #5

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Wednesday, September 26, 2018 10:06:12 PM  
**Last Modified:** Wednesday, September 26, 2018 10:11:59 PM  
**Time Spent:** 0 0 : 0 5 : 4 6  
**IP Address:**

Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ **5**

**Q2** How was the audio and video quality? **Good**

**Q3** How well did the students understand why the scientists went on the expedition? **Very well**

**Q4** Has the information presented on the appropriate level for your audience? **Yes**

**Q5** Did the video link encourage the students' interest in science? **Yes**

**Q6** Did the students enjoy the video link? Did it spark their imagination?

yes! it showed them that science is part of real life and they are very pleased that the project is so close to their homes. One student is preparing work for another project and has decided to concentrate on Plate tectonics!

**Q7** What did you like most about your video link?

The fact that the 'scientists' who are normally perceived as a remote group of people removed from ordinary society were willing to talk to our students.

And the fact that the team seemed very happy to be on the ship and excited by the project

**Q8** Approximately how many people were in attendance at your event?

5 students (total pupil population); principal and three other teachers and the school administrator.

**Q9** Do you have any general comments or suggestions for our video links?

try and do more of them.

I appreciate the difficulties involved but it will encourage students when they see science in action.

## #6

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Thursday, September 27, 2018 4:42:56 PM  
**Last Modified:** Thursday, September 27, 2018 4:45:47 PM  
**Time Spent:** 0 0 : 0 2 : 5 0  
**IP Address:**

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Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ 5

**Q2** How was the audio and video quality? **Excellent****Q3** How well did the students understand why the scientists went on the expedition? **Reasonably well****Q4** Has the information presented on the appropriate level for your audience? **Yes****Q5** Did the video link encourage the students' interest in science? **Yes****Q6** Did the students enjoy the video link? Did it spark their imagination?

Yes! The students very much enjoyed the video link! They can't believe how lucky they were to experience that and to see the seismometer being deployed!

---

**Q7** What did you like most about your video link?

The whole experience was fantastic! From the excitement waiting for the call to the questions and answers it was a great morning!

---

**Q8** Approximately how many people were in attendance at your event?

50

**Q9** Do you have any general comments or suggestions for our video links?

Keep up the good work!

---

**Q10** Optional: This survey is anonymous, but if you do not mind sharing this information, please give your name, the name of the school, and the class that participated.

Jessica Lynch. Kingswood Community College. 2nd & 3rd Year Geography classes.

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#7

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Thursday, September 27, 2018 5:34:53 PM  
**Last Modified:** Thursday, September 27, 2018 5:40:25 PM  
**Time Spent:** 0 0 : 0 5 : 3 1  
**IP Address:**

Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ **5**

**Q2** How was the audio and video quality? **Good**

**Q3** How well did the students understand why the scientists went on the expedition? **Reasonably well**

**Q4** Has the information presented on the appropriate level for your audience? **Yes**

**Q5** Did the video link encourage the students' interest in science? **Somewhat**

**Q6** Did the students enjoy the video link? Did it spark their imagination?

The students were full of energy after the video and were still coming up with questions they should have asked at the end of the day. This showed that they were thinking about the information they learnt and about the answers to other peoples questions.

**Q7** What did you like most about your video link?

Getting to meet all the staff, and the variety of different expertises that are on the both. I think it showed the importance of collaborating, and the different sides there are to a real life functioning scientific team.

**Q8** Approximately how many people were in attendance at your event?

30

**Q9** Do you have any general comments or suggestions for our video links?

I only booked the room for single class 40min but I think the students would have kept going for longer had there been time to do so. I thought that would be sufficient time. Had I known it might run over I would have organised an extended period.

## #8

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Thursday, September 27, 2018 5:54:17 PM  
**Last Modified:** Thursday, September 27, 2018 5:58:57 PM  
**Time Spent:** 0 0 : 0 4 : 4 0  
**IP Address:**

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Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ 5

**Q2** How was the audio and video quality? **Good****Q3** How well did the students understand why the scientists went on the expedition? **Reasonably well****Q4** Has the information presented on the appropriate level for your audience? **Yes****Q5** Did the video link encourage the students' interest in science? **Yes****Q6** Did the students enjoy the video link? Did it spark their imagination?

I would say that they loved it.

**Q7** What did you like most about your video link?

I loved it all.

The crew introductions and information at the start was very well done. The question and answer session was very enjoyable and interesting. Your crew were very friendly.

**Q8** Approximately how many people were in attendance at your event?

28

**Q9** Do you have any general comments or suggestions for our video links?

It was very well planned - well done!

The slight technical problems were our end and didn't last long.

My only suggestion would be to show us a bit more of the ship.

#9

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Thursday, September 27, 2018 6:25:36 PM  
**Last Modified:** Thursday, September 27, 2018 6:29:49 PM  
**Time Spent:** 0 0 : 0 4 : 1 3  
**IP Address:**

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Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ 5

**Q2** How was the audio and video quality? **Good****Q3** How well did the students understand why the scientists went on the expedition? **Reasonably well****Q4** Has the information presented on the appropriate level for your audience? **Yes****Q5** Did the video link encourage the students' interest in science? **Yes****Q6** Did the students enjoy the video link? Did it spark their imagination?

Yes they enjoyed it very much. They were amazed that they were going to part of a research project collecting data that had never been collected before.

---

**Q7** What did you like most about your video link?

The question and answer session was excellent and really informative. That was the mine and the students highlight

---

**Q8** Approximately how many people were in attendance at your event?

22

**Q9** Do you have any general comments or suggestions for our video links?

No. Excellent quality and delivered in a very efficient and interesting manner.

---



## #10

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Thursday, September 27, 2018 6:34:43 PM  
**Last Modified:** Thursday, September 27, 2018 6:41:56 PM  
**Time Spent:** 0 0 : 0 7 : 1 3  
**IP Address:**

Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ **4**

**Q2** How was the audio and video quality? **Good**

**Q3** How well did the students understand why the scientists went on the expedition? **Partially**

**Q4** Has the information presented on the appropriate level for your audience? **Some of it**

**Q5** Did the video link encourage the students' interest in science? **Somewhat**

**Q6** Did the students enjoy the video link? Did it spark their imagination?

It was very exciting for the class (1st year students aged 12/13) and tied in well with the the topic on plate tectonics which we had recently covered.

The students really enjoyed the experience and I have no doubt that it broadened many of their career ideas!

**Q7** What did you like most about your video link?

The fact that we were communicating with people far away in the middle of the ocean in real time!

**Q8** Approximately how many people were in attendance at your event?

30

**Q9** Do you have any general comments or suggestions for our video links?

No, it was all went very well.

#11

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Monday, October 01, 2018 3:54:59 PM  
**Last Modified:** Monday, October 01, 2018 4:00:41 PM  
**Time Spent:** 0 0 : 0 5 : 4 1  
**IP Address:**

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Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ **5**

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**Q2** How was the audio and video quality? **Good**

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**Q3** How well did the students understand why the scientists went on the expedition? **Reasonably well**

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**Q4** Has the information presented on the appropriate level for your audience? **Yes**

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**Q5** Did the video link encourage the students' interest in science? **Yes**

---

**Q6** Did the students enjoy the video link? Did it spark their imagination?

Definitely yes, it triggered their curiosity greatly. They were asking more questions after the link.

---

**Q7** What did you like most about your video link?

Photos of the named seismometer. Asking questions. Idea of gaining information about tsunamis etc.

---

**Q8** Approximately how many people were in attendance at your event?

26

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**Q9** Do you have any general comments or suggestions for our video links?

Maybe some video footage of where the scientists sleep, eat and work.

---

## #12

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Tuesday, October 02, 2018 9:17:53 PM  
**Last Modified:** Tuesday, October 02, 2018 9:29:35 PM  
**Time Spent:** 0 0 : 1 1 : 4 2  
**IP Address:**

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Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ 5

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**Q2** How was the audio and video quality? **Good**

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**Q3** How well did the students understand why the scientists went on the expedition? **Very well**

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**Q4** Has the information presented on the appropriate level for your audience? **Yes**

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**Q5** Did the video link encourage the students' interest in science? **Yes**

---

**Q6** Did the students enjoy the video link? Did it spark their imagination?

Yes the students enjoyed the video link and they learned a lot through discussion with the Scientists .

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**Q7** What did you like most about your video link?

The video where the seismometer was dipping into the water .

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**Q8** Approximately how many people were in attendance at your event?

19

---

**Q9** Do you have any general comments or suggestions for our video links?

Everything was very good .

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## #13

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Wednesday, October 03, 2018 4:42:10 PM  
**Last Modified:** Wednesday, October 03, 2018 4:48:16 PM  
**Time Spent:** 0 0 : 0 6 : 0 6  
**IP Address:**

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Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ **5**

---

**Q2** How was the audio and video quality? **Good**

---

**Q3** How well did the students understand why the scientists went on the expedition? **Very well**

---

**Q4** Has the information presented on the appropriate level for your audience? **Yes**

---

**Q5** Did the video link encourage the students' interest in science? **Yes**

---

**Q6** Did the students enjoy the video link? Did it spark their imagination?

Yes, absolutely

---

**Q7** What did you like most about your video link?

The link with the real. The time spent by the team to answer our questions. Friendly but serious spirit

---

**Q8** Approximately how many people were in attendance at your event?

25 students and 3 adults

---

**Q9** Do you have any general comments or suggestions for our video links?

No, it was really interesting because it will introduce my lesson on volcanism.

---

## #14

**COMPLETE**

**Collector:** Web Link 1 (Web Link)  
**Started:** Wednesday, October 03, 2018 5:28:07 PM  
**Last Modified:** Wednesday, October 03, 2018 5:42:46 PM  
**Time Spent:** 0 0 : 1 4 : 3 8  
**IP Address:**

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Page 1

**Q1** How many stars (1 is worst, 5 is best), would you give your SEA-SEIS video link overall?

☆ 3

**Q2** How was the audio and video quality? **Satisfactory****Q3** How well did the students understand why the scientists went on the expedition? **Reasonably well****Q4** Has the information presented on the appropriate level for your audience? **Yes****Q5** Did the video link encourage the students' interest in science? **Yes****Q6** Did the students enjoy the video link? Did it spark their imagination?

Those students made sure to go and tell others in their year about their experience and interests. They would have liked to be doing something like this every day.

---

**Q7** What did you like most about your video link?

The actual witnessing of the seismometer as it entered the waters off the North Atlantic Ocean.  
The interaction between students and scientists and how open and friendly you were.

---

**Q8** Approximately how many people were in attendance at your event?

20 students

**Q9** Do you have any general comments or suggestions for our video links?

There was a bit of time lag in some of the recordings between what someone was saying and when it was said. It was confusing.

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