

## SOUNDS IN THE ARCTIC

*Level:* upper-intermediate (B2)

*Time:* 45 minutes

*Aims:*

- To learn about different habitats - biodiversity
- To learn about conservation issues
- To learn about different species
- To learn about spectrogram and sound recording
- To look for specific information in the internet.

*Language functions:*

- To describe places, objects, species
- To plan and analyze
- To read for specific information
- To use the research to do a project.

*CLIL:* Geography, Biology Physics.

*Materials:* web pages, worksheet A-D

STAGE	AIMS	PROCEDURE	TIME	MATERIALS
Warm-up activity	To provide students with introduction to the topic	Ask your students what they know about Arctic. Try to brainstorm some ideas, student can put them on the board.	2-4 min	
Main part of the lesson	To introduce the project. To get students interested. To work with web pages. To look for specific information. To transfer the information.	<p><b>1. Introduction.</b> Tell your students that they are going to listen to different sounds. <a href="http://www.youtube.com/watch?v=42I3n3brI78">http://www.youtube.com/watch?v=42I3n3brI78</a> Their task is to listen and write down what kind of sounds they hear. Play the film (only the sound), do not show the film yet. Next ask your students what they have written down. Check their ideas and then play the film and ask students to write down the names of animals they see during the film.</p> <p><b>2. Task</b> Divide your students into 4 groups. Each group has the same task to do- to find the information about one of the animals they saw on the film. Give your students about 15 minutes to do this task. Each group get a worksheet with web pages and questions.</p> <p><b>3. Presentation</b> After 15 minutes, each group should present their answers and information they were able to find in the internet.</p>	<p>5 min</p> <p>15 min</p> <p>10 -12 min</p> <p>5-7 min</p>	<p><a href="http://www.youtube.com/watch?v=42I3n3brI78">http://www.youtube.com/watch?v=42I3n3brI78</a></p> <p>Web pages Worksheet A-D</p> <p><a href="http://whalesong.net/index.php/the-whalesong-project/technology">http://whalesong.net/index.php/the-whalesong-project/technology</a></p> <p><a href="http://www.sonicwonders.org/sound-map/">http://www.sonicwonders.org/sound-map/</a></p>

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		<b>4. Sounds</b> Tell your students to go to page: <a href="http://whalesong.net/index.php/the-whalesong-project/technology">http://whalesong.net/index.php/the-whalesong-project/technology</a> and look at the diagram which shows the way animal sounds are recorded under water. Then go to page : <a href="http://www.sonicwonders.org/bearded-seals-arctic/">http://www.sonicwonders.org/bearded-seals-arctic/</a> and listen to bearded seal call. Tell your students that lots of places and animals are being recoded at the moment. Go to page: <a href="http://www.sonicwonders.org/sound-map/">http://www.sonicwonders.org/sound-map/</a> and look at the map of sounds recorded.		
Wrap-up	Project - webquest	Tell your students that they will prepare a webquest on this topic- a sound map of different places on the earth. Student can choose their own places and animals and present it to the class. The students may have 2-3 weeks to prepare the webquest in the same groups they were working during the lesson.	2-3 min	

### Useful links:

<http://www.youtube.com/watch?v=42I3n3brI78>

<http://www.sonicwonders.org/sound-map/>

### Bearded Seal:

<http://www.birds.cornell.edu/brp/listen-to-project-sounds/bearded-seal>

<http://www.listenforwhales.org/page.aspx?pid=432>

<http://www.sonicwonders.org/bearded-seals-arctic/>

<http://www.nmfs.noaa.gov/pr/species/mammals/pinnipeds/beardedseal.htm>

<http://www.npolar.no/en/species/bearded-seal.html>

### Beluga Whale:

<http://www.nmfs.noaa.gov/pr/species/mammals/cetaceans/belugawhale.htm>

<http://inletkeeper.org/issues/beluga-whale>

<http://animals.nationalgeographic.com/animals/mammals/beluga-whale.html>

<http://marinebio.org/species.asp?id=159>

### Bowhead Whale:

[http://cetus.ucsd.edu/voicesinthesea\\_org/species/baleenWhales/bowhead.html](http://cetus.ucsd.edu/voicesinthesea_org/species/baleenWhales/bowhead.html)

<http://www.nmfs.noaa.gov/pr/species/mammals/cetaceans/bowheadwhale.htm>

<http://www.arkive.org/bowhead-whale/balaena-mysticetus/>

### Humpback Whale:

<http://www.nmfs.noaa.gov/pr/species/mammals/cetaceans/humpbackwhale.htm>

<http://www.arkive.org/humpback-whale/megaptera-novaeangliae/>

<http://animals.nationalgeographic.com/animals/mammals/humpback-whale/>

[http://www.seashepherd.org/lightbox\\_pages/humpback\\_whale.php](http://www.seashepherd.org/lightbox_pages/humpback_whale.php)

### Notes:

You can give students web pages or let them find their own sources. However, some guidance here is required.