

## Case Study Summary

This Case Study connects with our Lesson Plans: Illegal, Unreported and Unregulated (IUU) Fishing 1-3. It focuses on our working supporting the world heritage listed Galapagos Islands.

This Case Study takes 20 minutes to complete.



## Subjects relevant to

English, Geography, History, Math, Science and Social Science.

## Learning objectives

- Learn about the Galapagos Islands and poaching taking place.
- Learn about the work Sea Shepherd is doing to help protect the Galapagos from poaches.

## Preparation

- This case study has been designed to supplement our main lessons. It can be stopped at any time should you wish to include your own discussion/questions or incorporate the lesson activities.
- Depending on whether students are working in a classroom or remotely, you can choose to discuss questions in the class or use the online learning app.
- This digital lesson has an interactive option called student devices. If you choose this option ask the students to bring their mobile phones or tablets to the lesson.
- Should you choose the interactive option, it will run a quiz during the lesson. Recommendation: only use this interactive option in classes of up to 30 students.
- Students can sign up on their mobile device to the [www.LessonUp.app](http://www.LessonUp.app). They will be asked for a PIN code (this will appear automatically on slide 3 and will also show at the bottom of the screen). Students who sign up under a false name may be removed by the teacher.
- Students who do not have a mobile device can join the quiz with another student.
- If student devices is turned ON, you can opt to turn the sound and the share screen ON or OFF. Further on you can choose if you want to 'show ranking after each quiz' question. Doing so will create a competitive element, but it can be distracting. Recommendation: turn the 'show ranking after each quiz' OFF.
- The abovementioned options will also show if you click on the PIN code at the bottom of the screen.



# SEA SHEPHERD CASE STUDY: GALAPAGOS ISLANDS

CASE STUDY GUIDE: SECONDARY SCHOOL (Age 11 – 16)

## Lesson plan

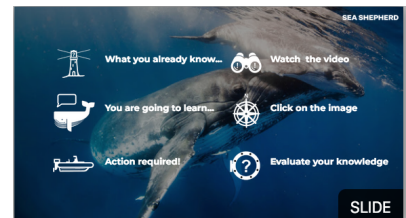
### Slide 1 Introduction

This lesson is provided by Sea Shepherd. Sea Shepherd was founded in 1977 and is a marine conservation organisation working to protect the oceans and marine wildlife. Sea Shepherd works globally on a range of issues impacting the oceans, running numerous direct action campaigns each year. IUU is one area Sea Shepherd is working on to help stop illegal fishing.



### Slide 2 Lesson action icons

During the lesson we will use these icons to identify the learning actions.



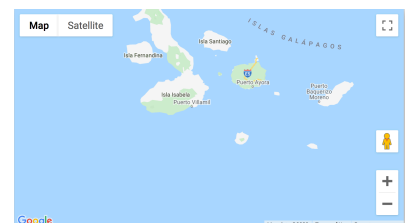
### Slide 3 Galapagos Islands

The Galapagos Islands are a series of volcanic islands surrounded by a protected marine reserve, which has UNESCO World Heritage status. The reserve covers some 70,000km<sup>2</sup>. The islands are a part of the Republic of Ecuador. Despite its protection it is still susceptible to poachers.



### Slide 4 Galapagos Islands

The map shows the location of the Galapagos Islands.





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## Slide 5 What do you already know?

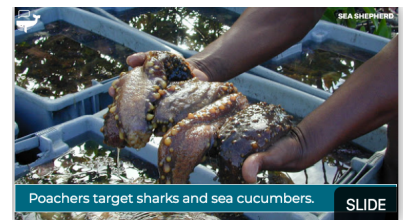
Ask students to answer the following question using [www.LessonUp.app](http://www.LessonUp.app) or discuss in the classroom.

“What do you already know about the Galapagos Islands?”



## Slide 6 Sharks and sea cucumbers

Sea Shepherd's work in the Galapagos is helping to protect the islands from overfishing by illegal poachers. The two main species under threat are sharks and sea cucumbers.



## Slide 7 Providing patrol vessels

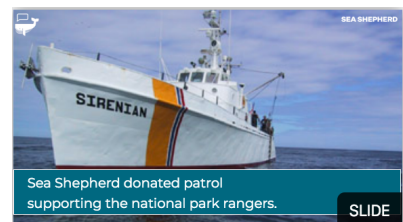
Sea Shepherd's campaign in the Galapagos has been to provide the support and resources needed by the parks and wildlife officers to protect the waters around the islands.

In the early days Sea Shepherd had an agreement with the government of Ecuador to help protect the Galapagos, allowing our vessels to patrol the region, detecting illegal activities. One investigation undertaken by our team in 2007 led to raids on mainland Ecuador, resulting in the seizure of 45,000 shark fins and 92,000 sea cucumbers that had been poached from the waters around the Galapagos.



## Slide 8 Donated patrol vessel

Sea Shepherd has been working to protect the Galapagos for over 20 years. In the early days the national parks rangers had very little resources to patrol and protect the waters around the many islands. In 2000 Sea Shepherd was able to deliver to them a vessel, the M/V Sirenia, so they could undertake patrols. The ability to increase surveillance in the area led to more illegal vessels being caught and long-lines being removed, which has led to a reduction in illegal poaching.





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## Slide 9 K-9 detection unit

In 2008 K-9, sniffer dog units were set up in partnership with the Ecuadorian National Police to help detect illegally smuggled wildlife. Kennels have been set up on 3 of the main islands for the teams to work from.

This allows them to check ports and airports to detect smuggling operations. Sea Shepherd helps to fund the training and taking care of the dogs, as well as re-homing dogs when they retire.



K9 Unit - Detecting wildlife smuggling operations. SLIDE

## Slide 10 Shark Education program

Sea Shepherd ran an education program on Shark awareness for local schools in the Galapagos, to educate children on how to help protect the future of sharks in the marine reserve.

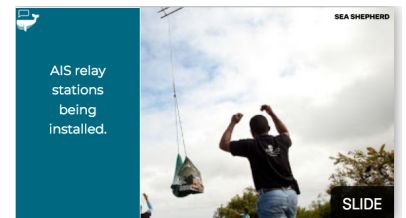


Children's shark education program. Teaching the importance of protecting sharks. SLIDE

## Slide 11 AIS

In 2012 Sea Shepherd was able to supply and install a new AIS (Automatic Identification System) and radio communications system covering the marine reserve. This helps to detect vessels within the marine reserve so they can be monitored and allows the rangers to better coordinate communicate across the region.

In August 2017 this system helped to detect the Fu Yuan Yu Leng 999 with an illegal cargo of thousands of sharks within the marine reserve.



AIS relay stations being installed. SLIDE

## Slide 12 Legal system

Sea Shepherd has also been working to strengthen the laws to protect the marine park and increase the prosecution of poachers, as well as producing an Environmental law manual. Sea Shepherd Legal is helping to assist in the prosecution of illegal poachers detected in the region.



Supporting the legal system. To ensure illegal operators are prosecuted. SLIDE





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## Slide 14 Question

Ask students to complete their answers to the following question using the [www.LessonUp.app](http://www.LessonUp.app) or discuss in classroom.

“What 4 ways has Sea Shepherd helped to increase protection for the Galapagos Islands?”



## Slide 15 Question

Ask students to complete their answers to the following question using the [www.LessonUp.app](http://www.LessonUp.app) or discuss in classroom.

“What two species are targeted by poachers?”



## Slide 16 Question

Ask students to complete their answers to the following question using the [www.LessonUp.app](http://www.LessonUp.app) or discuss in classroom.

“Why is it important to have marine reserves and protected zones?”



## Slide 17 What did you learn?

Ask students to answer the following question using [www.LessonUp.app](http://www.LessonUp.app) or discuss in the classroom.

“Write down three things you have learned?”



## Slide 18 What don't you understand?

Ask students to answer the following question using [www.LessonUp.app](http://www.LessonUp.app) or discuss in the classroom.

“Write down one thing you didn't understand?”





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[Slide 19 Close](#)



[www.seashepherdglobal.org](http://www.seashepherdglobal.org) SLIDE

## YOUR FEEDBACK

We value your feedback and would be pleased to hear your thoughts about this lesson and activities. Any comments, suggestions or requests for further information can be sent to [education@seashepherdglobal.org](mailto:education@seashepherdglobal.org).