

Form B-2
(FY2021)
Must be typed

Date (日付)
30/07/2021 (Date/Month/Year: 日/月/年)

Activity Report -Science Dialogue Program-
(サイエンス・ダイアログ事業 実施報告書)

- Fellow's name (講師氏名): LUIS CARRASCO TORNERO (ID No. P20101)

- Name and title of the accompanying person (講義補助者の職・氏名)
FUJITA, Go. Associate Professor

- Participating school (学校名): Bandai High School, Niigata

- Date (実施日時): 29/07/2021 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Studying Nature from Space

- Lecture format (講義形式):

◆ Onsite ・ Online (Please choose one.)(対面 ・ オンライン)((どちらか選択ください。))

◆ Lecture time (講義時間) 120 min (分), Q&A time (質疑応答時間) 20 min (分)

◆ Lecture style (ex.: used projector, conducted experiments)

(講義方法 (例: プロジェクター使用による講義、実験・実習の有無など))

Used projector presentation and conducted two activities using tablets.

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.

Luis Carrasco is a researcher from The University of Tokyo. He specializes in using photographs from satellites in space, or from airplanes, to study how nature is changing. His research focuses on studying how changes in ecosystems and in climate are affecting animal species around the world. Luis has worked in Spain, the UK, the USA and Japan. This lecture will be divided in three parts:

- 1) Luis will introduce himself, and will talk about his experiences working in Spain, UK and the USA. He will talk about how his passion for science begun, and about what to do to become a scientist. Also, he will talk about how the life of an environmental scientist is.
- 2) The second part of the lecture will focus on Luis's research. He will talk about images of the Earth taken from satellites, from airplanes or from drones. We will discuss about the different types of images taken from those vehicles, and how to use them in research for the conservation of nature. We will see satellite images and drone footage, and also

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3D pictures of forests taken with Laser technologies. In this section, we will also discuss how these technologies can help us understand how humans and climate change are changing our planet.

- 3) Finally, Luis will talk about his research in Japan. We will study the importance of rice fields for Japanese people and nature. Luis will show his maps of Japan's rice fields, and his work with herons and egrets that feed in Japanese rice fields. If there is time (and the lecture is not remote), we will have an activity using google earth images to explore rice fields in Niigata prefecture.

We will wrap up the lecture with a review of the importance of science for the conservation of our planet and the well-being of the people living in it.

◆Other noteworthy information (その他特筆すべき事項):

- Impressions and comments from the accompanying person:

It was an excellent interactive lecture, so much so that I forgot to support the lecture and got absorbed in listening to it.

According to a teacher of this high school, students who attended the lecture were those who were interested in English, but not so good at science or math. However, while listening to this lecture, I could see the sparkle in their eyes change.

The change happened when they experienced that they could measure the area of their school, or see with their own eyes what is happening in the Amazon rainforest on the other side of the earth. I also believe that their excitement was not small, as they were able to experience what happened one or two decades ago on the other side of the planet, while operating their own tablets.

I am interested to know what the students felt and what they plan to do in the future.