

Form B-2  
(FY2022)  
Must be  
typed

Date (日付)

23/01/2023 (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): Shreedevi Porunakatu Radhakrishna (ID No. P22022)

- Name and title of the lecture assistant (講義補助者の職・氏名)

I did not take a lecture assistant with me

- Participating school (学校名): Okazaki High School

- Date (実施日時): 13 January 2023 16:00-18:00 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Why study Space Weather?

- 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) 90 min (分), Q&A time (質疑応答時間) 30 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

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

The Sun is the primary source of energy for several processes in the Earth's atmosphere. The Sun emits energy in the form of radiation and charged particles. Thankfully, the earth has a geomagnetic field which protects it from the highly energetic charged particles coming from the sun. Despite being protected by the magnetic field, sometimes the charged particles from the sun make their way into the earth's atmosphere. This interaction of the sun with the earth's atmosphere creates auroras which are also called dancing lights. Auroras are a very beautiful naturally occurring phenomena seen only at the polar regions of the earth. The Sun-Earth interaction also has harmful effects which are described by the term 'Space Weather'. I described the Sun, and the Earth's atmosphere and how their interaction leads to Space Weather events. I introduced the various effects of Space Weather on our daily life. I described the physics behind the formation of aurora in the polar regions in simple terms. I discussed the various experiments that I conducted in the Antarctic region to study auroras. I introduced my institute where leading research in the field of space physics is conducted and described the necessary background needed to study space physics. I

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believe that the students have obtained a good understanding of why we should study Space Weather.

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

- Impressions and comments from the lecture assistant (講義補助者の方から、本事業に対する意見・感想等がありましたら、お願いいたします。):