

(For JSPS Fellow)

Form B-5

Date (日付)

10/12/2013 (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): Maria Mihalikova (ID No. P13734)- Participating school (学校名): Saitama Prefectural Kumagaya High School- Date (実施日時): 2/12/2013 15:25-16:20 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) Observation of tropopause folds in Antarctica(in Japanese) 南極大陸での圏界面フォールディングの観測

- Lecture summary (講演概要): Please summary your lecture 200-500 words.

In my lecture I have talked a bit about Slovakia (my homeland) and what I like about it at the beginning. I have talked about Slovakia's culture, history and nature as it is one of the things that brought me to become scientist. I have also talked briefly about the life in Sweden where I started my research about atmospheric processes (e.g tropopause folds and mountain waves) in the Polar Regions in the free troposphere and lower stratosphere (3 to 15 km height). This research was done with the help of direct in-situ measurements (ozonesondes), remote sensing by radars and high-resolution models. Arctic and Antarctic are not just beautiful places but also a sensitive part of our Earth's ecosystem. Even in present days they hide a lot of mysteries in terms of not well understood processes and unexplored places. I have summarized my experience from field work in Antarctica, talked about instruments we used and problems that we have encountered as mostly uninhabited, remote areas represent a challenge for obtaining direct observations even nowadays. After the talk about the measurement campaign, I have showed the data we have gained. And attempted to explain how we used this data and what the output of the measurements was and what kind of results we have gained with our research.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 50 min (分), Q&A time (質疑応答時間) 10 min (分)

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

(講演方法 (例: プロジェクター使用による講演、実験・実習の有無など))

used projector

◆Interpretation (ex.: assistance by accompanied person, provided Japanese explanation by yourself) (通訳 (例: 同行者によるサポート、講師本人による日本語説明))

assistance by accompanied person

◆Name and title of accompanied person (同行者 職・氏名)

安田 勇輝

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

- Impressions and opinions from accompanied person (同行者の方から、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。):