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**Abstract:** Tutorial sessions on VESPA were held at COSPAR, EPSC and AGU 2018 meetings. Description of the main session features and outcomes are provided as well as upcoming session and longer-term delivery of tutorials.

## Table of Contents

List of acronyms and abbreviations.....	3
Introduction.....	4
Summary of 2018 Training sessions.....	4
Conclusions.....	5
Tutorial repository.....	6
References cited.....	6

## List of figures

Figure 1: A view of the back-to-back OpenPlanetary data café' and VESPA training session at EPSC 2018 .....	5
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## List of acronyms and abbreviations

<b>Acronym</b>	<b>Explanation</b>
AGU	American Geophysical Union
COSPAR	COmmittee for Space Research
CRISM	Compact Reconnaissance Imaging Spectrometer for Mars
EGU	European Geosciences Union
EPSC	European Planetary Science Conference
IPDA	International Planetary Data Alliance
OP	OpenPlanetary
RI	Research Infrastructure
SSHADE	Solid Spectroscopy Hosting Architecture of Databases and Expertise
VO	Virtual Observatory

## Introduction

VESPA Training sessions for users, complementing those for data producers (through AO and within beneficiaries) were carried out at few scientific conferences the European Planetary Sciences Congress (EPSC), COSPAR as well as AGU. All those conferences gathered a large fraction of the solar and planetary science community, and thus were particularly well-targeted opportunities for such an event. Tutorials were revised and added for these sessions.

Tutorials were made available to users from both the VESPA web page and the VESPA GitHub specific repository where they are maintained and version-controlled (see D6.13). Additional VESPA training is planned for the upcoming NA1-supported workshop on Planetary Mapping and VO (2<sup>nd</sup> edition) to be held near Paris in July 2019<sup>1</sup>. The previous workshop resulted in proceedings and publications (e.g. see D11.10, Rossi et al., 2018; Marmo et al. 2019; Minin et al., 2019).

## Summary of 2018 Training sessions

VESPA Training sessions during the reporting period covered by the present document were held at the following meetings:

- Attendance at IPDA booth at COSPAR 2018<sup>2</sup> - Pasadena (USA) – 14-22 July 2018
- Training session at EPSC 2018<sup>3</sup> (Figure 1) – Berlin (Germany) – 16-21 September 2018
- Attendance at IPDA booth AGU 2018<sup>4</sup> – Washington DC (USA) 10-14 December 2018

The three meetings were supported by staff from the Observatory of Paris in all three cases and by staff from Jacobs University for EPSC.

Training sessions were based on the content and format of previous tutorials, with revision of those tutorials from D6.13 (Rossi et al., 2018) and fixes and adaptations since then.

Participants to the EPSC VESPA session back to back with OP included some 21 individuals ranging from PhD student to early career and senior scientists. Booths at COSPAR and AGU had a much larger attendance.

Use cases discussed with participants included e.g. cross-utilisation of data via VESPA and VO tools, such as plotting planetary surface datasets within Aladin<sup>5</sup>, or taking advantage of data discovery and query capabilities to select

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<sup>1</sup> <https://epn-vespa.github.io/mapping2019/>

<sup>2</sup> <http://cospar2018.org>

<sup>3</sup> <https://www.epsc2018.eu>

<sup>4</sup> <https://fallmeeting.agu.org/2018/>

<sup>5</sup> <https://aladin.u-strasbg.fr>

particular data products within a certain polygonal extent, such as CRISM cubes inside a crater. Also, splinter presentations on the use of SSHADE were performed within the group of VESPA training session attendants.

Topics covered included the general architecture and search interface of VESPA, as well as running few selected tutorials. Following the training session at EPSC and in preparation for that of AGU, the tutorial repository has been slightly updated and restructured, with additional fixes and cleanup performed in January and February 2019, with iterations across VESPA beneficiaries from Paris, Toulouse and Bremen.



Figure 1: A view of the back-to-back OpenPlanetary data café' and VESPA training session at EPSC 2018

## Conclusions

Based on the experience at EGU 2018 (See D6.13) as well as from the collective feedback at EPSC 2018 (Figure 1), it was decided that the impact of EGU training sessions was not as high as those at EPSC and that VESPA tutorials could gather more visibility embedded inside OpenPlanetary (OP) Data Café<sup>6</sup>. Opportunities of individual VESPA sessions at meetings attended by beneficiaries will still be used. Also, for sustainability, embedding VESPA tutorials within physical and possible future online OP Data Café also beyond the current RI is planned, starting from EPSC 2019.

<sup>6</sup> <https://github.com/openplanetary/op-data-cafe>

## Tutorial repository

VESPA tutorials are available publicly through the GitHub platform at <https://github.com/epr-vespa/tutorials>

## References cited

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