**Erasmus Plus GeoPlaNet Strategic Partnership**

**IO9: Field Trip Guide**

**OUTLINE**

This document has been prepared by the University of Padova in collaboration with the University D’Annunzio and the whole consortium of the Erasmus+ Strategic Partnership GeoPlaNet-SP (ref. 2020-1-FR01-KA203-079773) with a more consistent effort from University of Nantes Personnels. The context was the summer school on Planetary Geological Mapping and Field Analogues organized in the framework of the same partnership.

**DESCRIPTION OF THE INTELLECTUAL OUTPUT**

The final aim of this Intellectual Output is to provide a comprehensive overview of some key sites on the Dolomites analogue to similar geological environments on Mars. The field guide is focused on the Upper Permian sedimentary environment of semi-arid alluvial plains, the Upper Permian Lower-Triassic coastal and shallow marine sequences and the Quaternary periglacial morphologies. The main sites of interest are the Bletterbach Gorge, the San Pellegrino Pass and the Rolle Pass. The guide describes in detail the most important analogies of the sites with specific Martian geological settings and provides geological maps of each site.

This is the first field guide ever produced concerning Dolomitic sites seen from a planetary perspective. As such, it will be a reference for any field activity in the Dolomites aiming at comparing Martian geological environments to analogue ones on the Earth. Thus, it will be useful for students and scientists in planetary science willing to improve their direct knowledge of Martian analogues. It could be also used as a reference for outreach activities organized by the Geological Museum of the Dolomites on similar topics, the same topics are organized for any student in planetary science and geology willing to improve their direct knowledge of geomorphologic and stratigraphic features analogue to Martian environments visited by rovers. With documentary intent, moreover, a dedicated outreach video describing the field activity has been recorded and is available at the following websites:

<https://www.geoscienze.unipd.it/en/geoplanet-school-dolomites-0>

<https://geoplanet-sp.eu/en/activities>

<https://www.youtube.com/watch?v=OV3W9AFoVsA>

and, together with the field trip guide, in the following data repository:

<https://researchdata.cab.unipd.it/id/eprint/868>

The product does not display any deviation from what was planned within the project and has been fully exploited and appreciated by the students of the Planetary Geological Mapping and Field Analogue summer school.